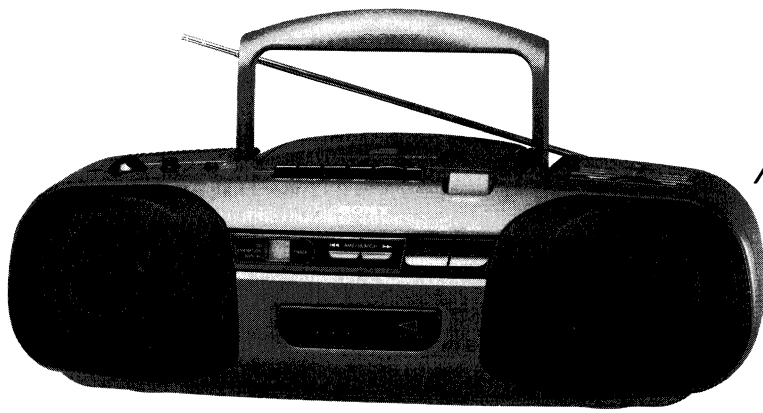
CFD-9

SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model
Tourist Model
PX Model



Model Name Using Similar Mechanism	CD Section	CFD-8
	Tape Section	CFD-8
Optical Pick-up Type		KSM-213BAN/S-N
Tape Transport Mechanism Type		MF-8/2

SPECIFICATIONS

CD player section

System: Compact disc digital audio system
Laser diode properties: Material: GaAlAs
Wave length: 780 nm
Emission duration: Continuous
Laser output: Less than 44.6 μW
(This output is the value measured at a distance of about 200 mm from the objective lens surface on the optical pick-up block.)
Spindle speed: 200 r/min (rpm) to 500 r/min (rpm) (CLV)
Error correction: Sony Refined Super Strategy
Cross Interleave Reed Solomon Code
Number of channels: 2
Frequency response: 20–20,000 Hz + 1.0/–2.5 dB
Wow and flutter: Below measurable limit

Radio section

Frequency range

Model	FM	AM
AEP, UK	87.6 - 107MHz	531 - 1,602kHz
Italian	87.5 - 108MHz	526.5 - 1,606.5kHz
US, Canadian, Taiwan, Central & South America	87.6 - 108MHz	530 - 1,710kHz
Saudi Arabia	87.6 - 107MHz	530 - 1,605kHz
E, Australian, PX, Hong Kong	87.6 - 108MHz	
East European	65 - 108MHz	531 - 1,602kHz
Tourist	76 - 108MHz	530 - 1,629kHz

IF: FM: 10.7 MHz
AM: 455 kHz
Aerials: FM: Telescopic aerial
AM: Built-in ferrite bar aerial

Cassette-corder section

Recording system: 4-track 2-channel stereo
Frequency response: TYPE I (normal) cassette:
70–10,000 Hz

General

Speaker: Full range: 10 cm dia., 3.2 ohms cone type
Outputs: Headphones jack (stereo minijack):
For 16–68 ohms impedance headphones
Maximum power: 2.3 W + 2.3 W
Power requirements
AEP, East European, Italian model : 220 - 230V AC, 50Hz
UK, Australian model : 240V AC, 50Hz
US, Canadian, Central & South America, Taiwan model : 120V AC, 60Hz
E, Saudi Arabia, Tourist, PX, Hong Kong model : 110 - 120V
220 - 240V AC, 50/60Hz selectable
DC 9 V, 6 R20 (size D) batteries
Power consumption: 20W (EXCEPT Taiwan model)
25W (Taiwan model)

– Continued on page 2 –

MICROFILM

CD RADIO CASSETTE-CORDER

SONY®

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Battery life

	FM recording	Tape playback	CD playback
Sony SUM-1 (NS)	approx. 13.5 h	approx. 7.5 h	approx. 2.5 h
Sony Alkaline AM1	approx. 19 h	approx. 12 h	approx. 4.5 h

Dimensions	Approx. 500 × 156 × 243 mm (w/h/d) incl. projecting parts
Mass	4.1 kg (incl. batteries)
Supplied accessory	Mains lead (1)

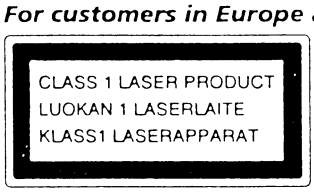
Design and specifications subject to change without notice.

Note
This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

For customers in Europe and Saudi Arabia



This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

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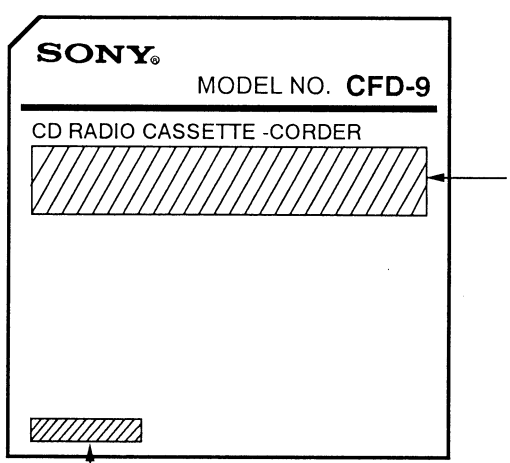
MODEL IDENTIFICATION

– Model Number Label –



AC : 220-230V~50Hz 20W
(AEP, East European, Italian model)
AC : 240V~50Hz 20W
(UK, Australian model)
AC : 120V~60Hz 20W
(US, Canadian, Central & South America, Taiwan model)
AC : 110-120V/220-240V~50/60Hz 20W
(E, Saudi Arabia, Tourist, PX, Hong Kong model)

MADE IN CHINA : Canadian, AEP, UK, E, Australian, Hong Kong, Italian, Tourist, PX model
MADE IN MALAYSIA : US, Canadian, AEP, Saudi Arabia, Central & South America, Taiwan model

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1
SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic bthereakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic brakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

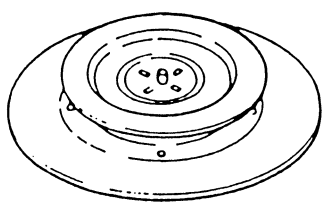
NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe more than 25 cm away from the objective lens.

CHUCK PLATE JIG ON REPAIRING

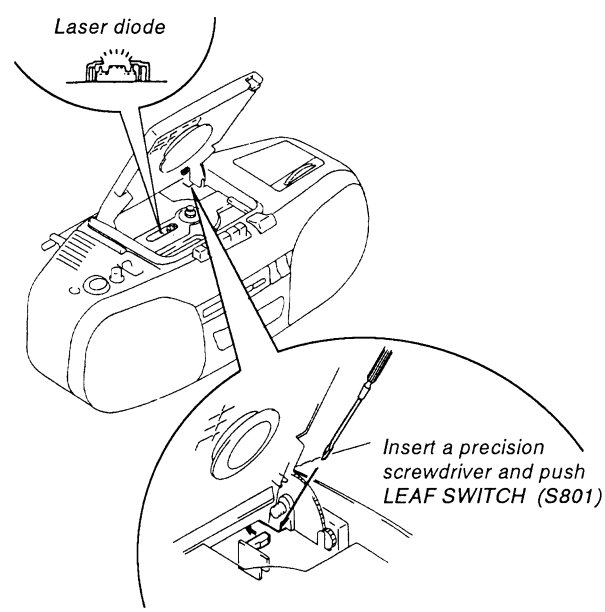
On repairing CD section, playing a disc without the CD lid, use Chuck Plate Jig.

- Code number of Chuck Plate Jig: X-4918-255-1



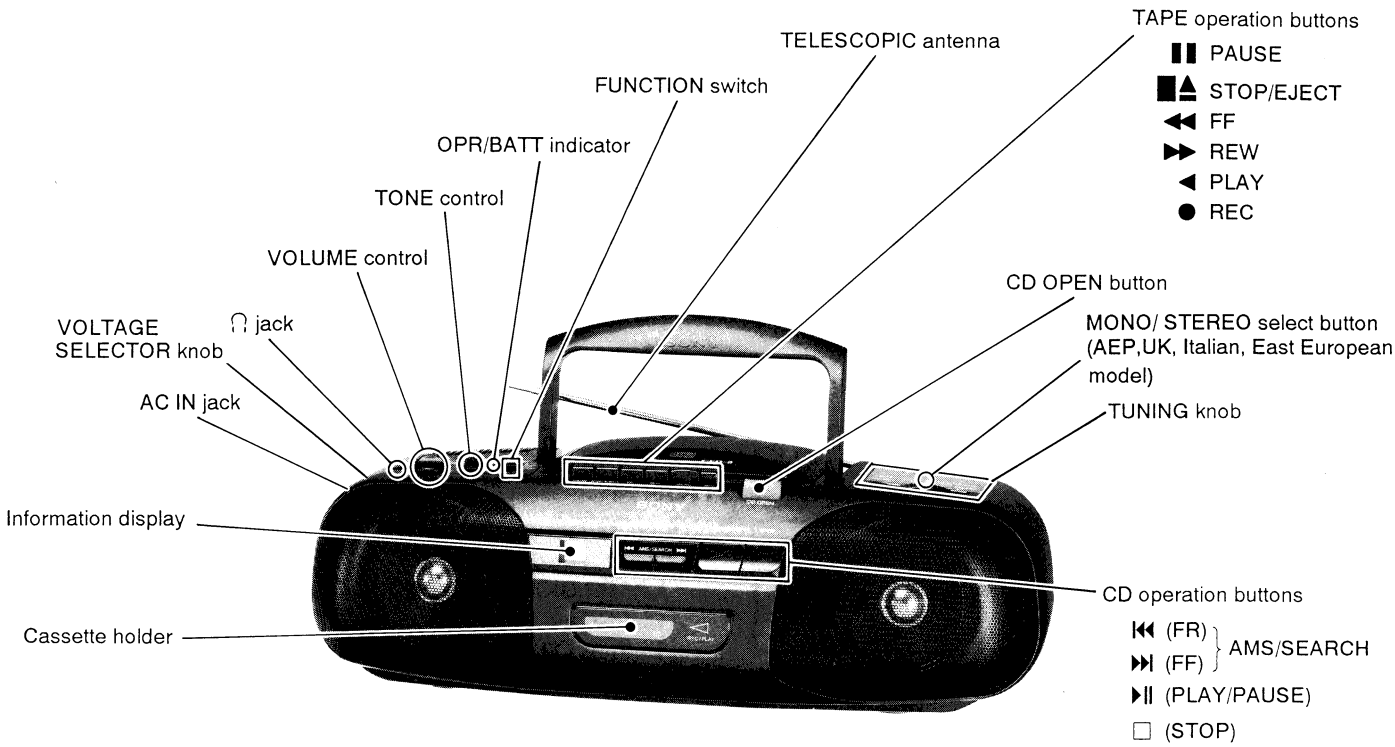
LASER DIODE AND FOCUS SEARCH OPERATION CHECK

1. Press CD open knob.
2. Open the lid for CD.
3. Push on LEAF SWITCH (S801) as following figure.
4. Confirm the laser diode emission while observing the objecting lens. When there is no emission, Auto Power Control circuit or Optical Pick-up is broken.
   Objective lens moves up and down once for the focus search.



SECTION 2
GENERAL

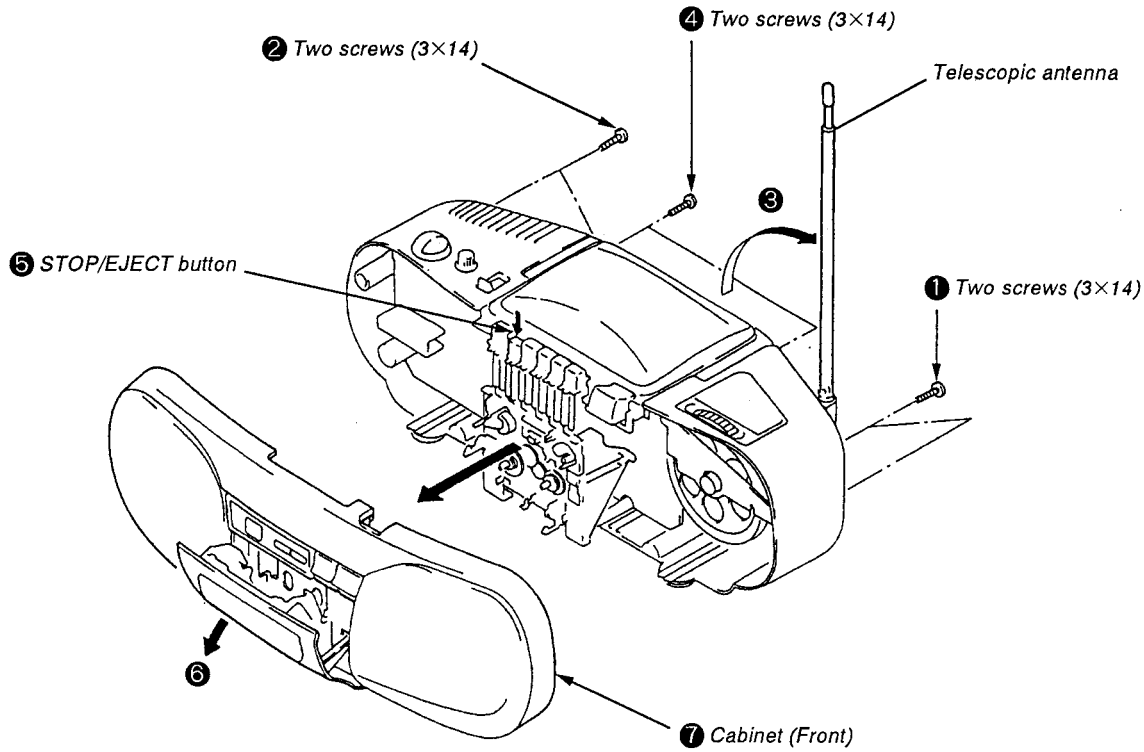
LOCATION AND FUNCTION OF CONTROLS



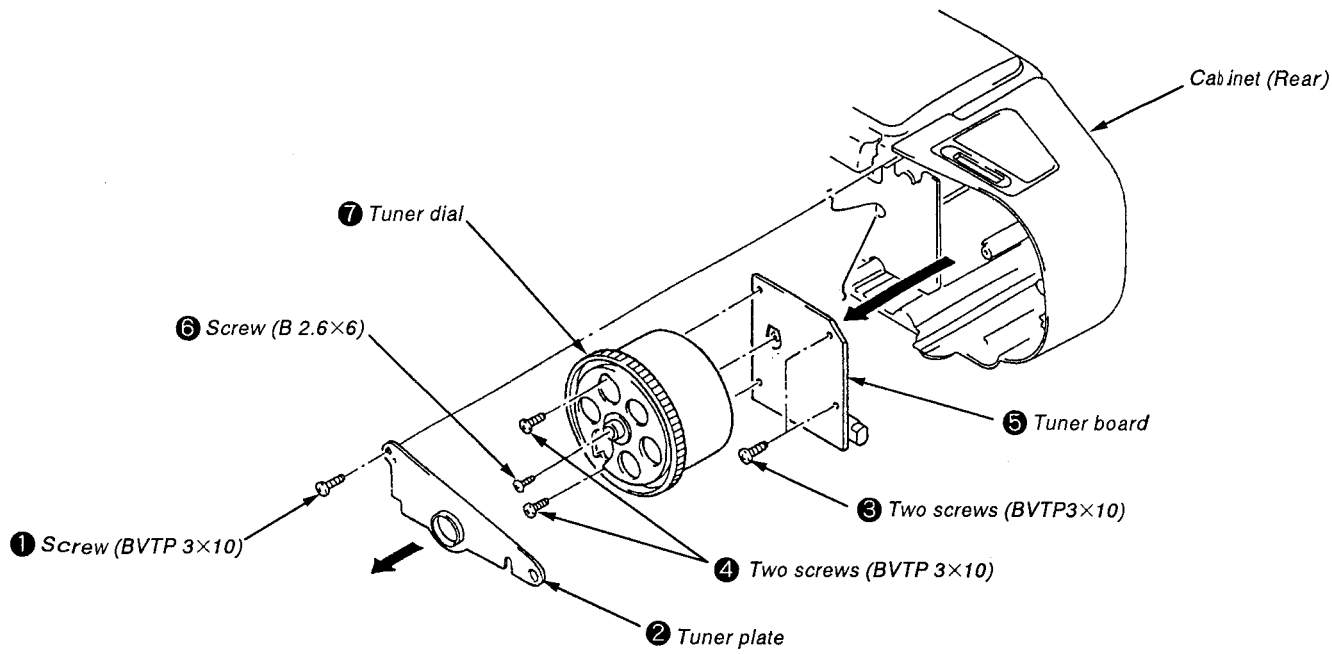
SECTION 3
DISASSEMBLY

Note : Follow the disassembly procedure in the numerical order given.

3-1. CABINET (FRONT) REMOVAL



3-2. TUNER DIAL, TUNER BOARD REMOVAL



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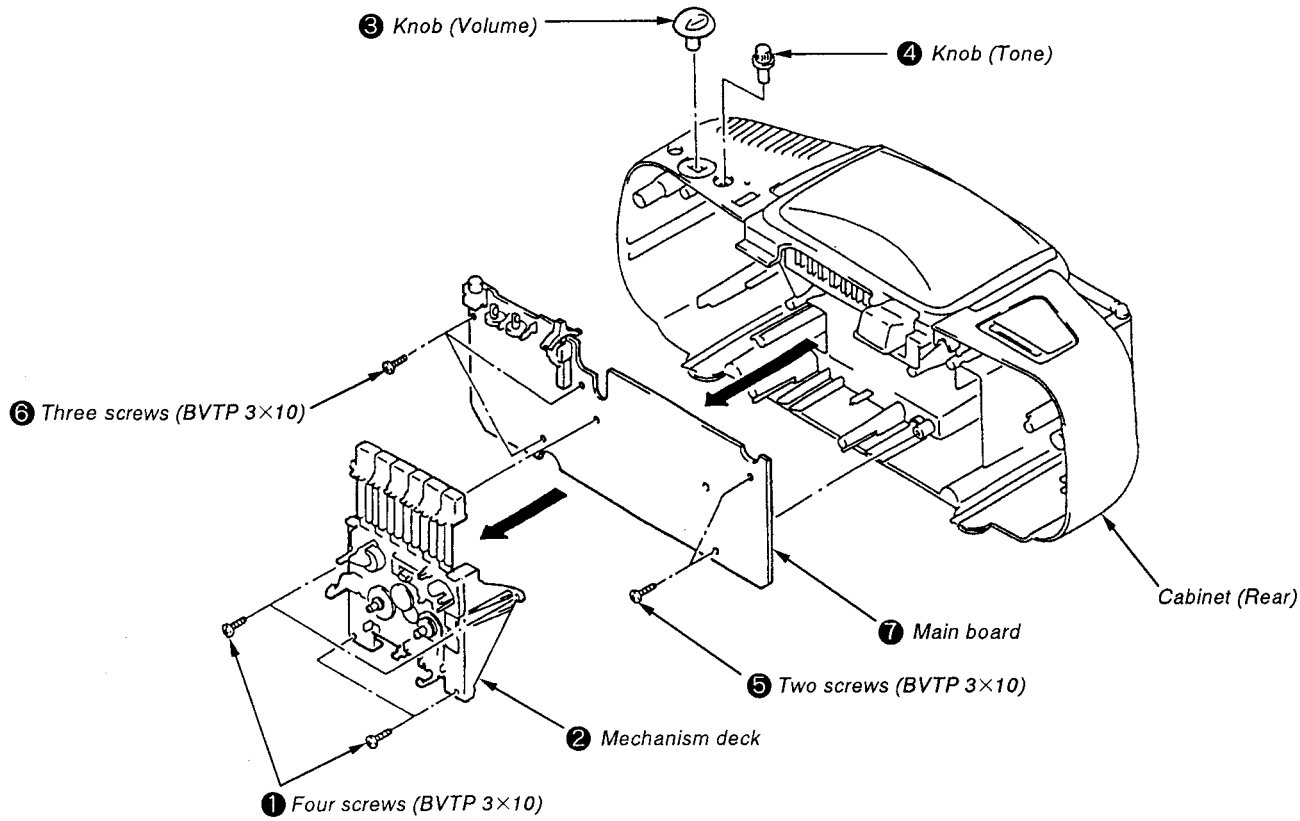
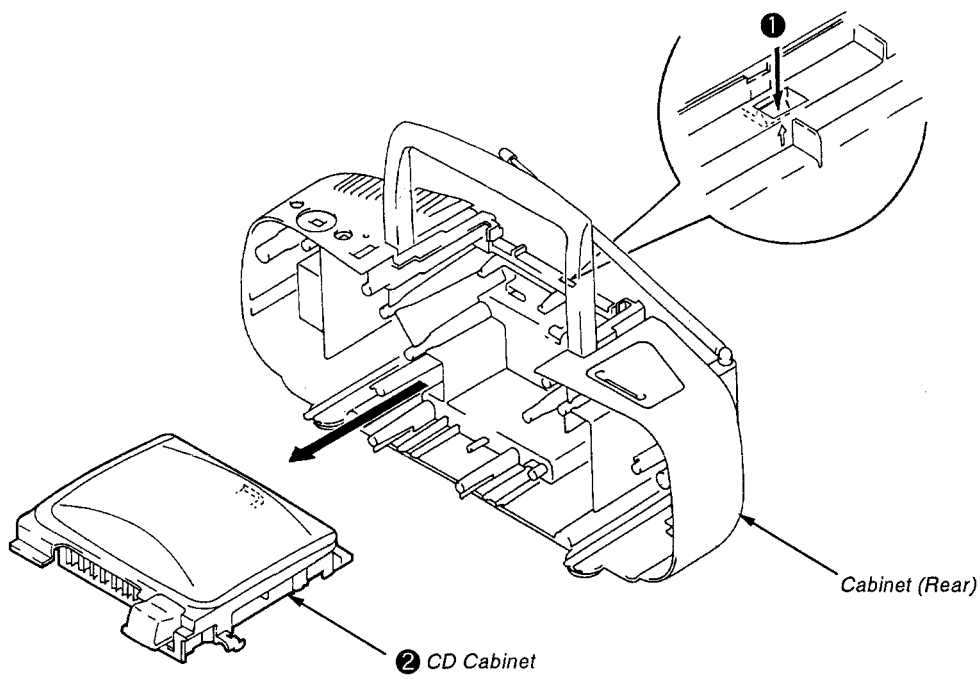
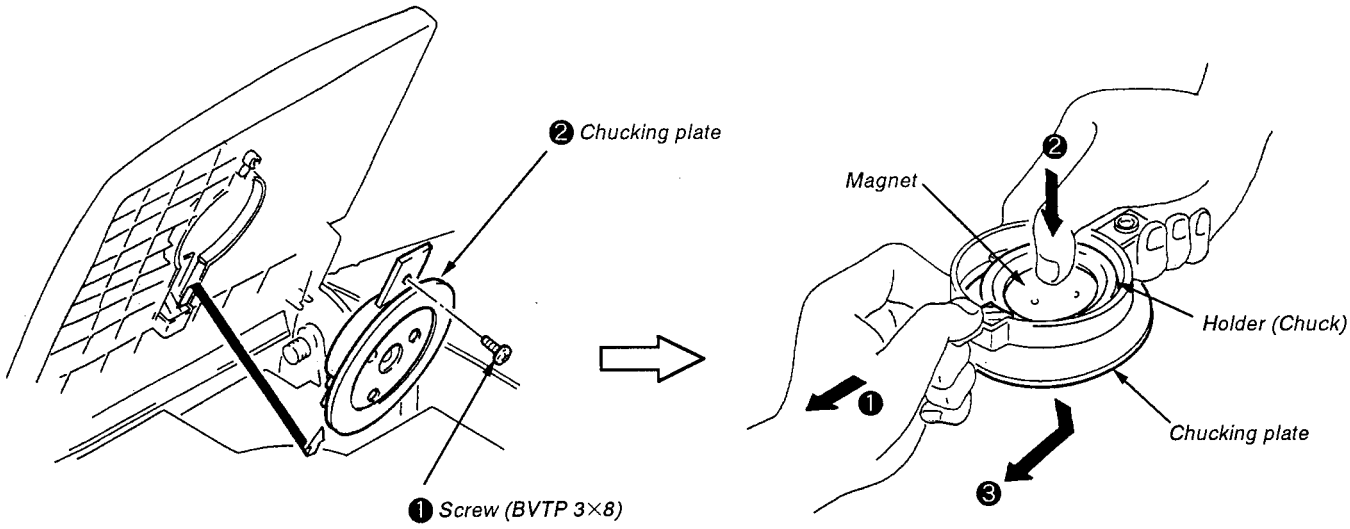
3-3. MECHANISM DECK, MAIN BOARD REMOVAL



3-4. CD CABINET, CABINET (REAR) REMOVAL



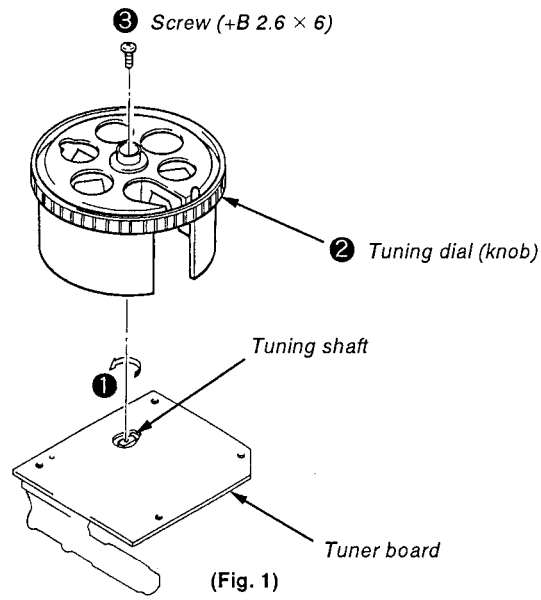
3-5. MAGNET, CHUCKING PLATE REMOVAL



SECTION 4
DIAL POINTER INSTALLATION

Note : Follow the installation procedure in the numerical order given.

1. Turn tuning shaft fully to arrow direction.
2. Fit tuning shaft to hole of tuning dial (knob) and then install it. (Fig.1)



(Fig. 1)

SECTION 5
ADJUSTMENTS

5-1. MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab :
   record/playback head — pinch roller
   erase head — rubber belts
   capstan — idlers
2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Torque	Torque Meter	Meter Reading
Forward	CQ-102C	30 – 70g•cm (0.42 – 0.97 oz•inch)
Forward back tension	CQ-102C	1.5 – 5.5g•cm (0.020 – 0.076 oz•inch)
Fast Forward	CQ-201B	more than 60g•cm (more than 0.84 oz•inch)
Rewind	CQ-201B	more than 60g•cm (more than 0.84 oz•inch)

Tape Tension Measurement

Torque Meter	Meter Reading
CQ-403A	more than 100g (more than 3.53 oz)

5-2. ELECTRICAL ADJUSTMENTS

TAPE RECORDER SECTION

Standard Output Level

Output terminal	HP OUT
load impedance	32 Ω
output signal level	0.25V (– 10dB)

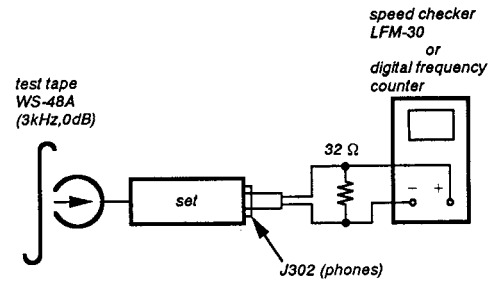
Test Tape

Type	Signal	Used for
WS-48A	3kHz, 0dB	Tape Speed Adjustment
P-4-A063	6.3kHz, – 10dB	Head azimuth Adjustment

Tape Speed Adjustment

Procedure :

Mode : playback

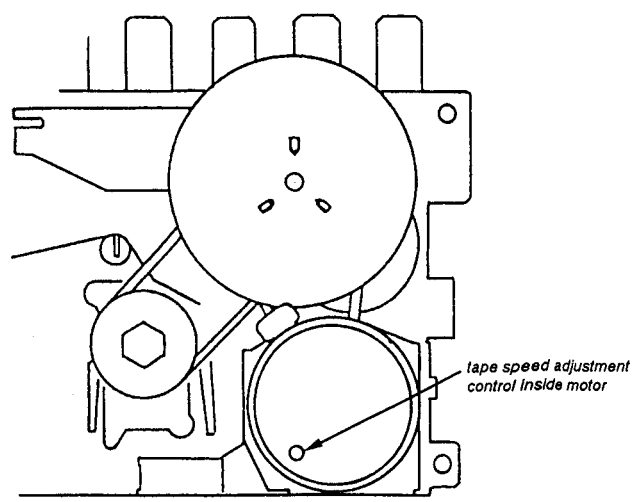


Adjustment Value :

Speed checker	Digital frequency counter
– 1 to +1%	2,970 – 3,030 Hz

Frequency difference between the beginning and the end of the tape should be within 1.5%(45Hz) .

Adjustment Location :



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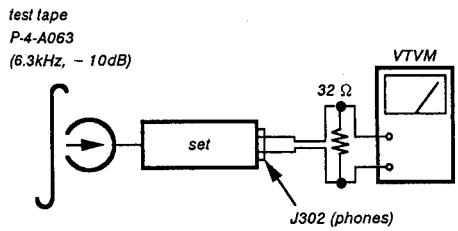
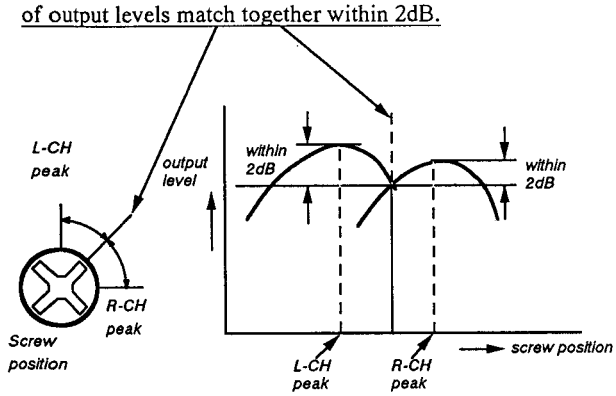
Record/Playback Head Azimuth Adjustment

Procedure :

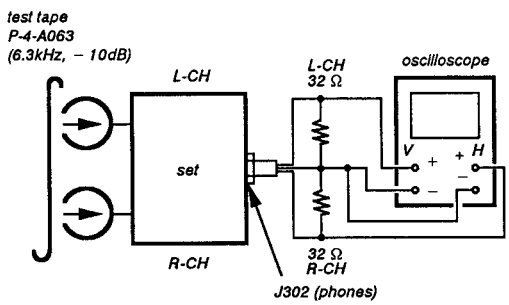
1. Mode : playback

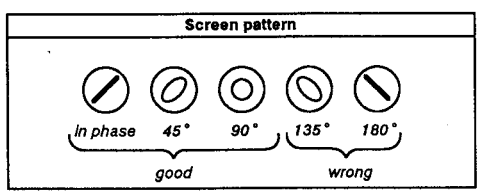


2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 2dB.

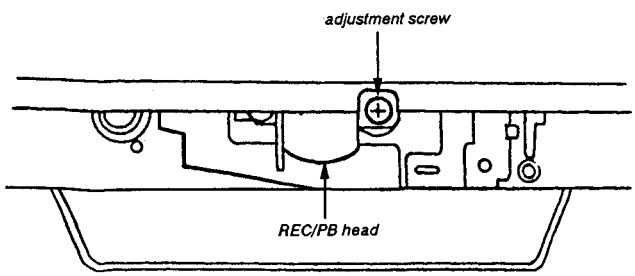


3. Phase Check
   Mode : playback





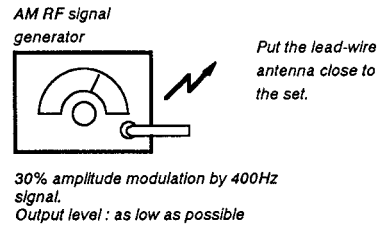
Adjustment Location : – record/playback head –



TUNER SECTION

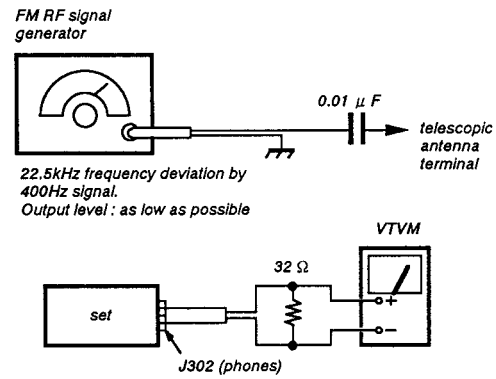
AM Section

Function switch : AM
Volume : MIN



FM Section

Function switch : FM
Volume : MIN



- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

no mark : US, Canadian model
(( )) : Italian model
( ) : AEP, UK model
< > : East European model
<< >> : E, Australian, Taiwan, Tourist, PX, Central & South America, Hong Kong model
[ ] : Saudi Arabia model

AM IF ALIGNMENT			
Adjust for a maximum reading on VTVM.			
CFT1	455kHz	(455kHz)	((455kHz))
	< 455kHz >	≪ 455kHz ≫	[455kHz]

AM FREQUENCY COVERAGE ADJUSTMENT			
Adjust for a maximum reading on VTVM.			
L4	520kHz	(520kHz)	((516kHz))
	< 520kHz >	≪ 520kHz ≫	[520kHz]
CT4	1,780kHz	(1,680kHz)	((1,630kHz))
	< 1,680kHz >	≪ 1,680kHz ≫	[1,680kHz]

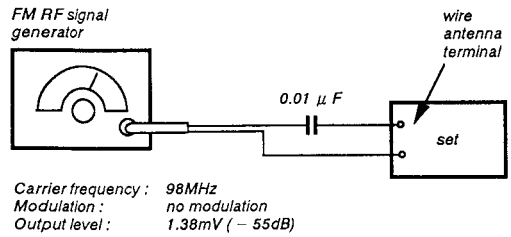
AM TRACKING ADJUSTMENT			
Adjust for a maximum reading on VTVM.			
L3	620kHz	(620kHz)	((620kHz))
	< 620kHz >	≪ 620kHz ≫	[620kHz]
CT3	1,400kHz	(1,400kHz)	((1,400kHz))
	< 1,400kHz >	≪ 1,400kHz ≫	[1,400kHz]

FM FREQUENCY COVERAGE ADJUSTMENT			
Adjust for a maximum reading on VTVM.			
L2	(87.0MHz)	86.5MHz	((87.35MHz))
	< 64.0MHz >	≪ 86.5MHz ≫	[87.35MHz]
CT2	(108.3MHz)	109.5MHz	((108.25MHz))
	< 109.5MHz >	≪ 109.5MHz ≫	[107.8MHz]

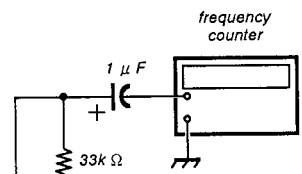
FM TRACKING ADJUSTMENT			
Adjust for a maximum reading on VTVM.			
L1	(87.0MHz)	86.5MHz	((87.35MHz))
	< 64.0MHz >	≪ 86.5MHz ≫	[87.35MHz]
CT1	(108.3MHz)	109.5MHz	((108.25MHz))
	< 109.5MHz >	≪ 109.5MHz ≫	[107.8MHz]

VCO Adjustment

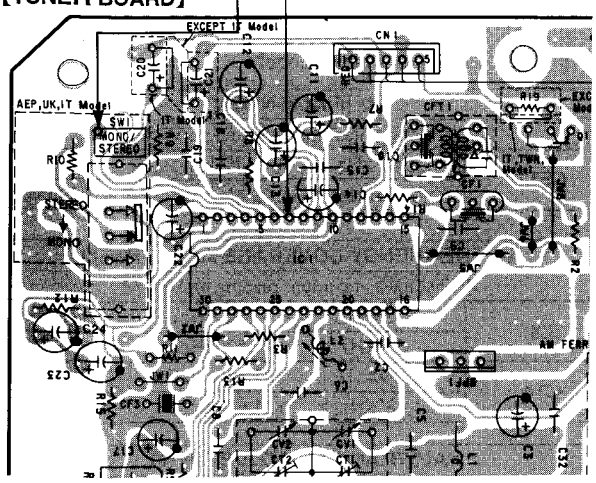
Procedure :



1. Connect the frequency counter to ④ and ⑦ pins of IC1 as shown the figure below.
2. Turn the set to 98MHz.
3. Adjust RV1 for 76kHz ± 500Hz reading on frequency counter.



[TUNER BOARD]



CD SECTION

Note on Adjustment

1. Perform adjustment in test mode.
   After adjustment, be sure to release test mode.
2. Perform adjustments in the order given.
3. Use the disc (YEDS-18. Part No. 3-702-101-01) only when so indicated.

Before adjustment

Put the set into test mode and perform the following checks. Repair if there are any problems.

- **Sled Motor Check**

1. press ⏯ key, then press OFF button.
2. Press ⏭ , ⏮ keys and confirm that the Optical pick-up moves smoothly from the innermost to outermost circumference and back smoothly and with no catching or abnormal noises. (Cancellation of BTL mute)
   ⏭ : Optical pick-up moves to the outer circumference
   ⏮ : Optical pick-up moves to the inner circumference

- **Focus Search Check**

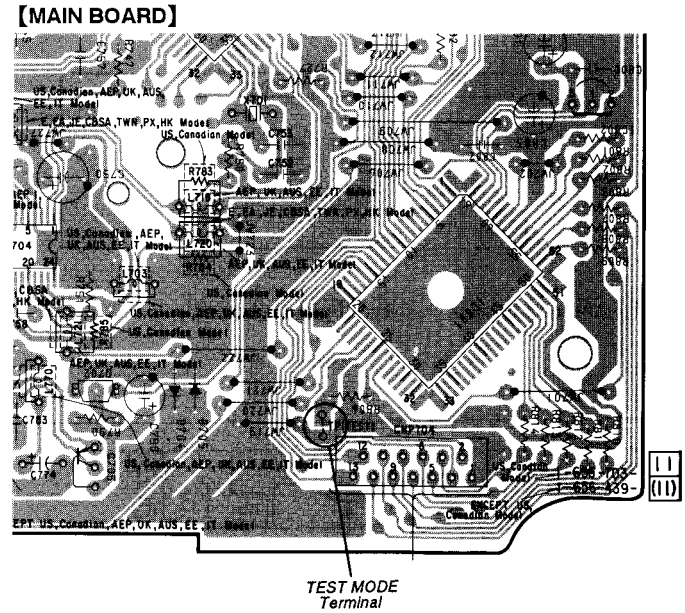
1. Press ⏯ key. (Focus search operation is performed continuously.)
2. Look at the Optical pick-up objective lens and confirm that it moves up and down smoothly, with no catching or abnormal noises.
3. Press □ button.
   Confirm that focus search operation stops. If it does not , press □ button again longer.

Note : When the malfunction is occurred by mis-passing other keys, turn off the power and check again from making the test mode.

How to Put the Set into Test Mode

1. Short-circuit following portion (IC801 ㉔ pin) on the MAIN board.
2. Turn the POWER on.
3. Open the short-circuit to release test mode.

[MAIN BOARD]



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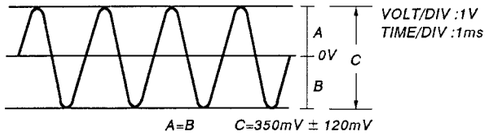
E-F Balance Adjustment

This adjustment is to be done when the optical block is replaced.

Adjustment procedure :

1. Connect oscilloscope to test point TP (VC) and TP (TEO) on main board.
2. Put the set into test mode.
3. Optical pick-up setting to the center by ⏭ or ⏮ button pushing.
4. Put disc (YEDS-18) in and press the ⏯ button.
5. Adjust RV703 so that the oscilloscope traverse waveform is symmetrical, as shown in the figure below.
6. Release test mode after adjustment is completed.



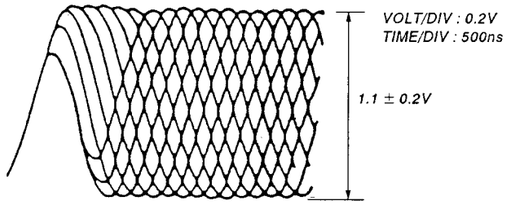
Focus Bias Adjustment

This adjustment is to be done when the optical block is replaced.

Adjustment procedure :

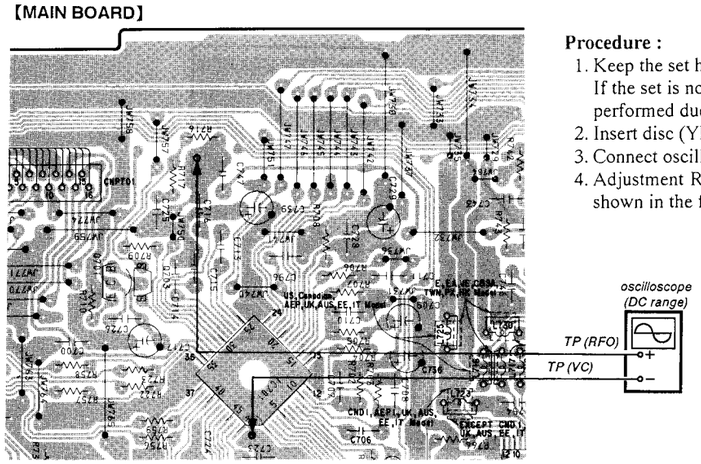
1. Connect oscilloscope to test point TP (VC) and TP (RFO) on main board.
2. Put the set into test mode.
3. Optical pick-up setting to the center by ⏭ or ⏮ button pushing.
4. Put disc (YEDS-18) in and press the ⏯ button.
5. Press the ⏯ button.(Tracking servo ON)
6. Adjust RV701 so that the oscilloscope waveform is as shown in the figure below (eye pattern).
   A good eye pattern means that the diamond shape (◇) in the center of the waveform can be clearly distinguished.
7. Release test mode after adjustment is completed.

● RF signal reference waveform (eye pattern)



When observing the eye pattern, set the oscilloscope for AC range and raise vertical sensitivity.

【MAIN BOARD】



Focus/Tracking Gain Adjustment

A frequency responce analyzer is necessary in order to perform this adjustment exactly.
However, this gain has a margin, so even if it is slightly off, there is no problem. Therefore, do not perform this adjustment.
Focus/tracking gain determines the pick-up follow-up (vertical and horizontal) relative to mechanical noise and mechanical shock when the 2-axis device operate.
However, as these reciprocate, the adjustment is at the point where both are satisfied.

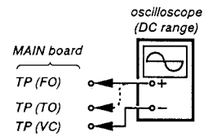
- When gain is raised, the noise when the 2-axis device operates increases.
- When gain is lowered, mechanical shock and skipping occurs more easily.
- When gain adjustment is off, the symptoms below appear.

Symptoms \ Gain	Focus	Tracking
● The time until music starts becomes longer for STOP → ⏯ button or automatic selection. (⏮, ⏭ buttons pressed.) (Normally takes about 2 seconds.)	low	low or high
● Music does not start and disc continues to rotate for STOP →⏯ button or automatic selection. (⏮, ⏭ buttons pressed.)	–	low
● Sound is interrupted during PLAY. Or time counter display stops progressing.	–	low
● More noise during 2-axis device operation.	high	high

The following is a simple adjustment method.

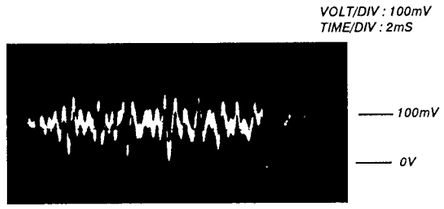
– Primary Adjustment –

Note : Since exact adjustment cannot be performed, remember the positions of the controls before performing the adjustment.If the positions after the primary adjustment are only a little different, return the controls to the original position.

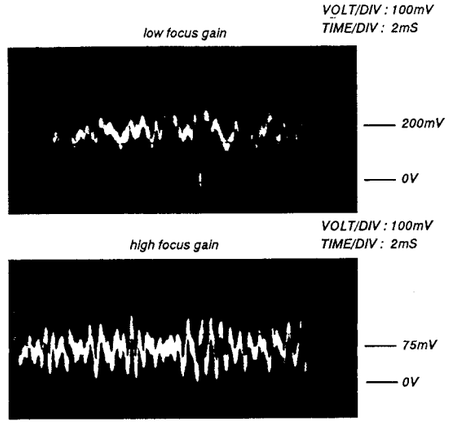


Procedure :

1. Keep the set horizontal.
   If the set is not horizontal, this adjustment cannot be performed due to the gravity against the 2-axis device.
2. Insert disc (YEDS-18) and press ⏯ button.
3. Connect oscilloscope to TP(FO) and TP (VC) on MAIN board.
4. Adjustment RV702 on digital board so that the waveform is as shown in the figure below. (focus gain adjustment)

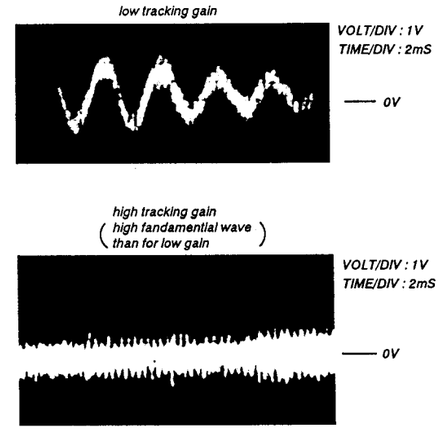


● Incorrent Examples (DC level changes more than on adjusted waveform)

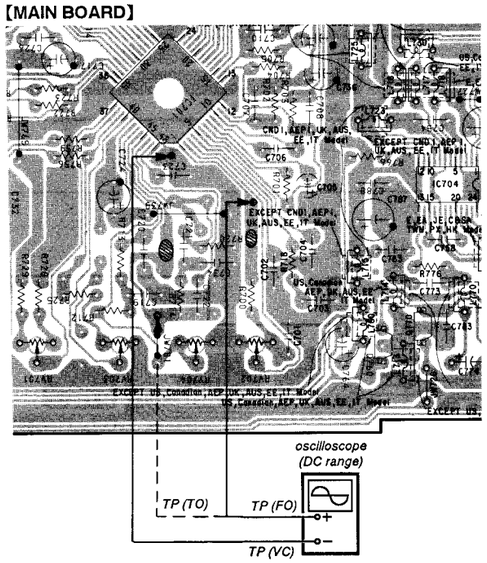


5. Connect oscilloscope to TP (TO) and TP (VC) on MAIN board.
6. Adjust RV704 on digital board so that the waveform is as shown in the figure below.

● Incorrect Examples (fundamental wave appears)



【MAIN BOARD】



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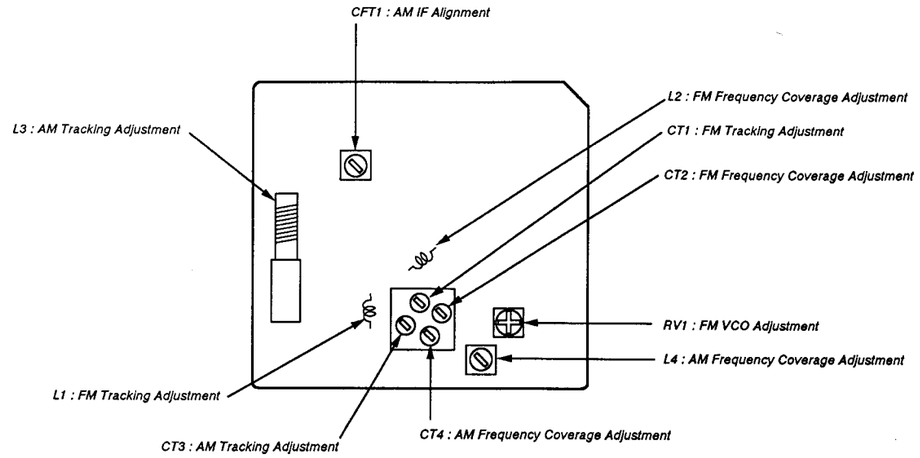
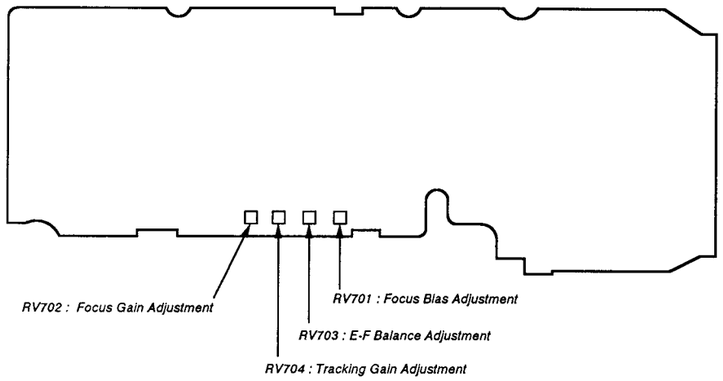
TUNER SECTION

Adjustment Location : Tuner board (Component side)


CFT1 : AM IF Alignment
L3 : AM Tracking Adjustment
L2 : FM Frequency Coverage Adjustment
CT1 : FM Tracking Adjustment
CT2 : FM Frequency Coverage Adjustment
RV1 : FM VCO Adjustment
L4 : AM Frequency Coverage Adjustment
L1 : FM Tracking Adjustment
CT3 : AM Tracking Adjustment
CT4 : AM Frequency Coverage Adjustment

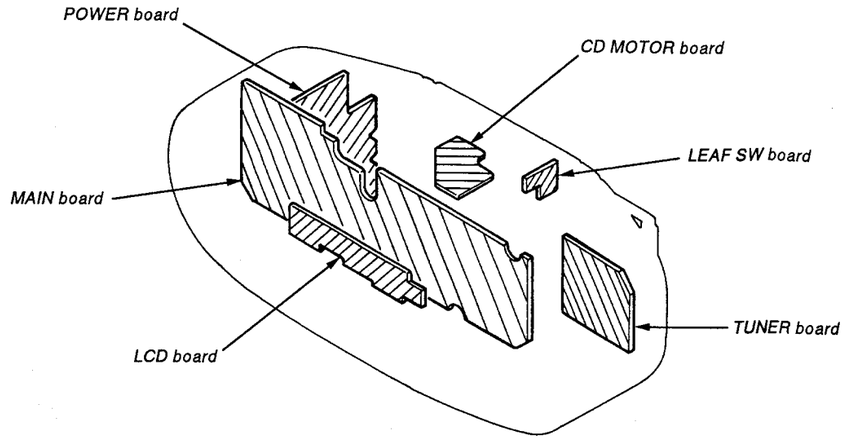
CD SECTION

Adjustment Location : Main board (Component side)



SECTION 6
DIAGRAMS

6-1. CIRCUIT BOARD LOCATION



6-2. PRINTED WIRING BOARDS

• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D301	C - 14	Q1	D - 28
D302	C - 14	Q101	E - 14
D303	C - 14	Q201	E - 14
D304	E - 16	Q301	C - 15
D305	B - 14	Q302	C - 16
D306	F - 16	Q303	C - 14
D307	B - 14	Q304	C - 15
D308	C - 14	Q305	B - 14
D309	B - 14	Q306	C - 14
D310	F - 16	Q307	C - 17
D311	E - 16	Q308	C - 17
D313	C - 15	Q309	C - 15
D316	C - 15	Q310	C - 15
D704	E - 23	Q311	C - 15
D705	E - 23	Q312	C - 15
		Q701	C - 19
IC1	D - 27	Q702	E - 22
IC301	D - 16	Q703	C - 20
IC302	D - 13	Q705	E - 22
IC701	D - 20	Q760	E - 22
IC702	C - 23	Q770	E - 22
IC703	E - 19		
IC704	D - 22		
IC801	E - 24		
IC802	D - 25		

EXCPET US, Canadian model

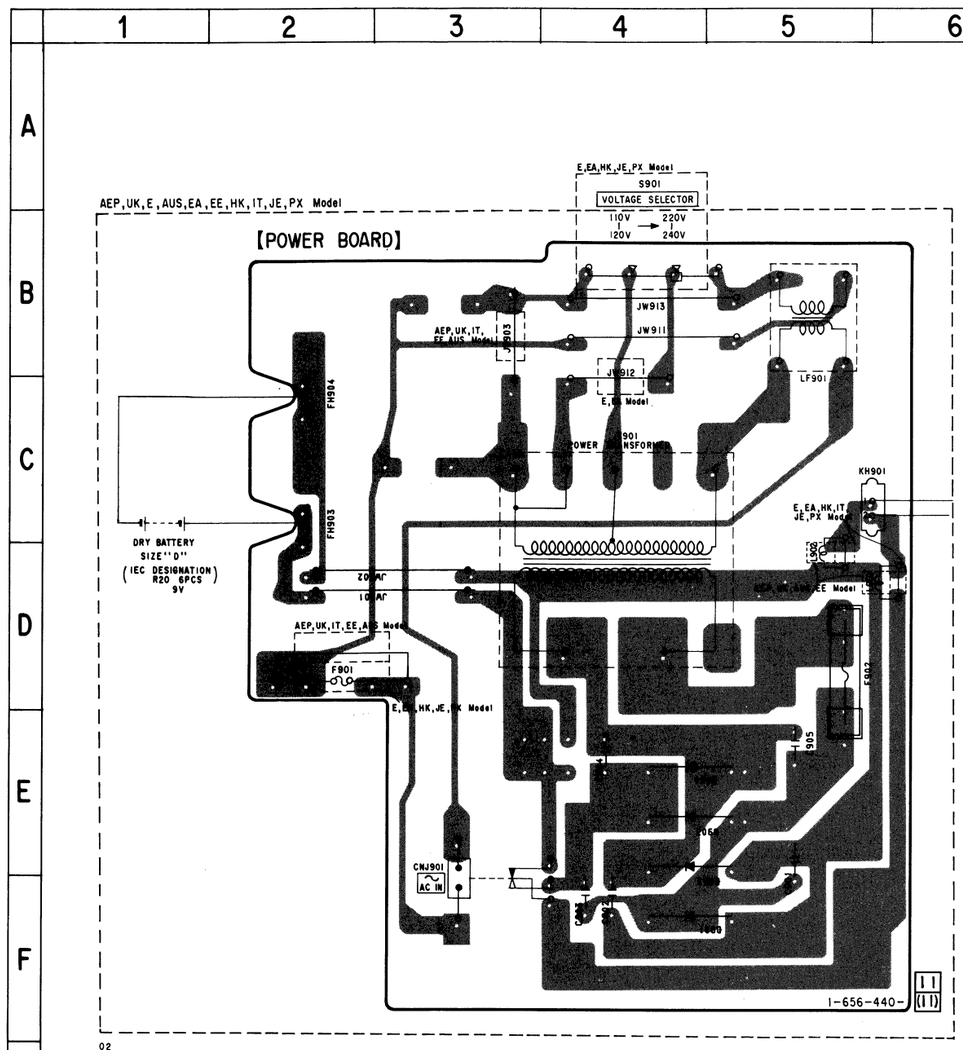
Ref. No.	Location
D901	F - 4
D902	E - 4
D903	E - 4
D904	E - 4

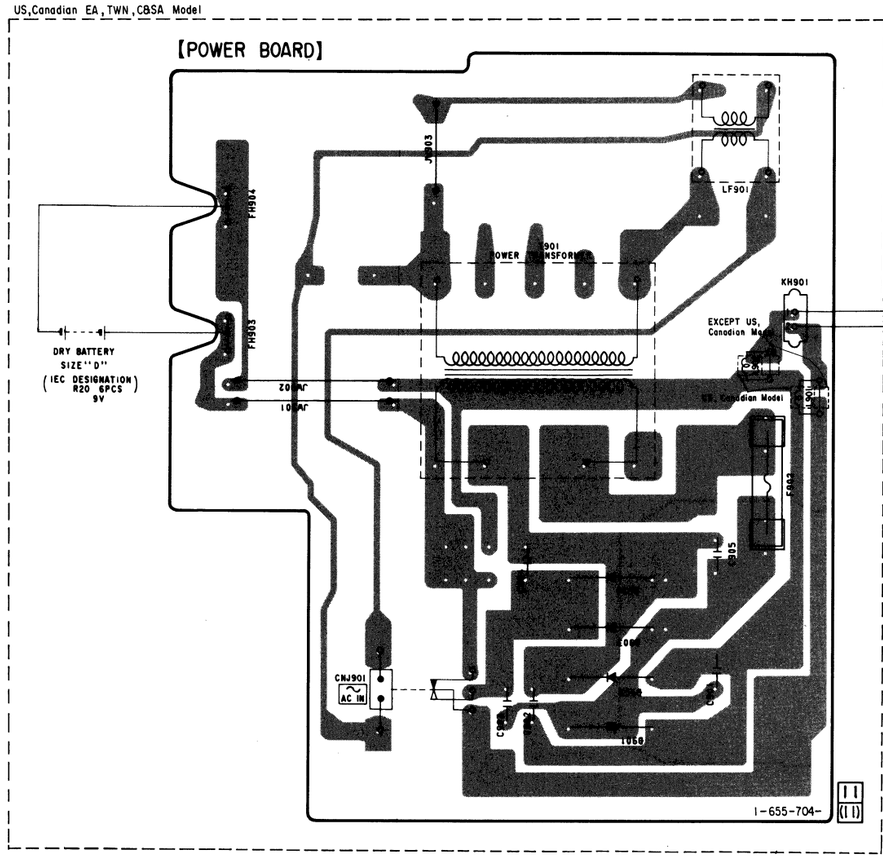
US, Canadian model

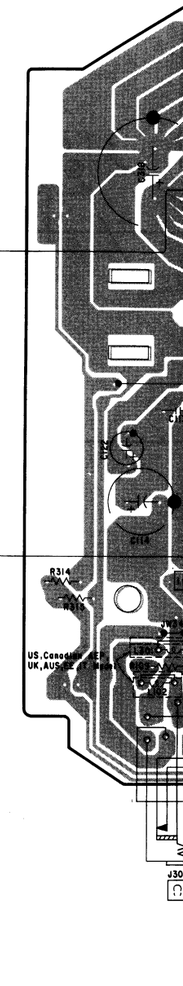
Ref. No.	Location
D901	F - 10
D902	E - 10
D903	E - 10
D904	E - 10

Note:

- O— : parts extracted from the component side.
- ■ : parts mounted on the conductor side.
- ▒ : Pattern on the side which is seen.
- Abbreviations
  - IT : Italian
  - EE : East European
  - EA : Saudi Arabia
  - C&SA : Central & South America
  - TWN : Taiwan
  - HK : Hong Kong
  - JE : Tourist
  - AUS : Australian
  - CND : Canadian







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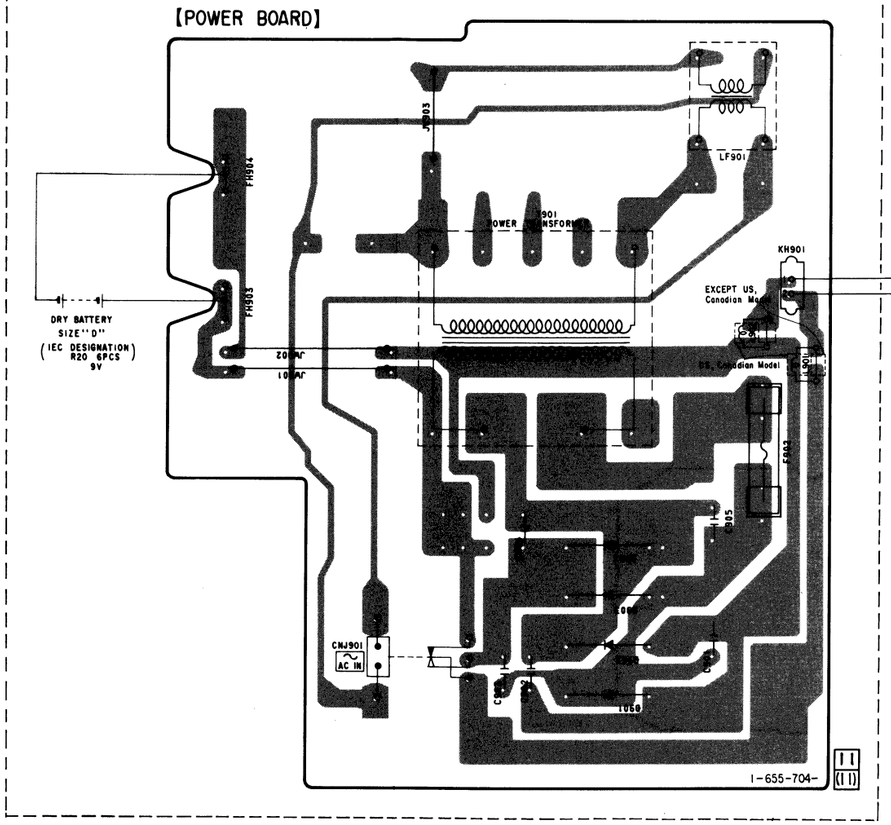
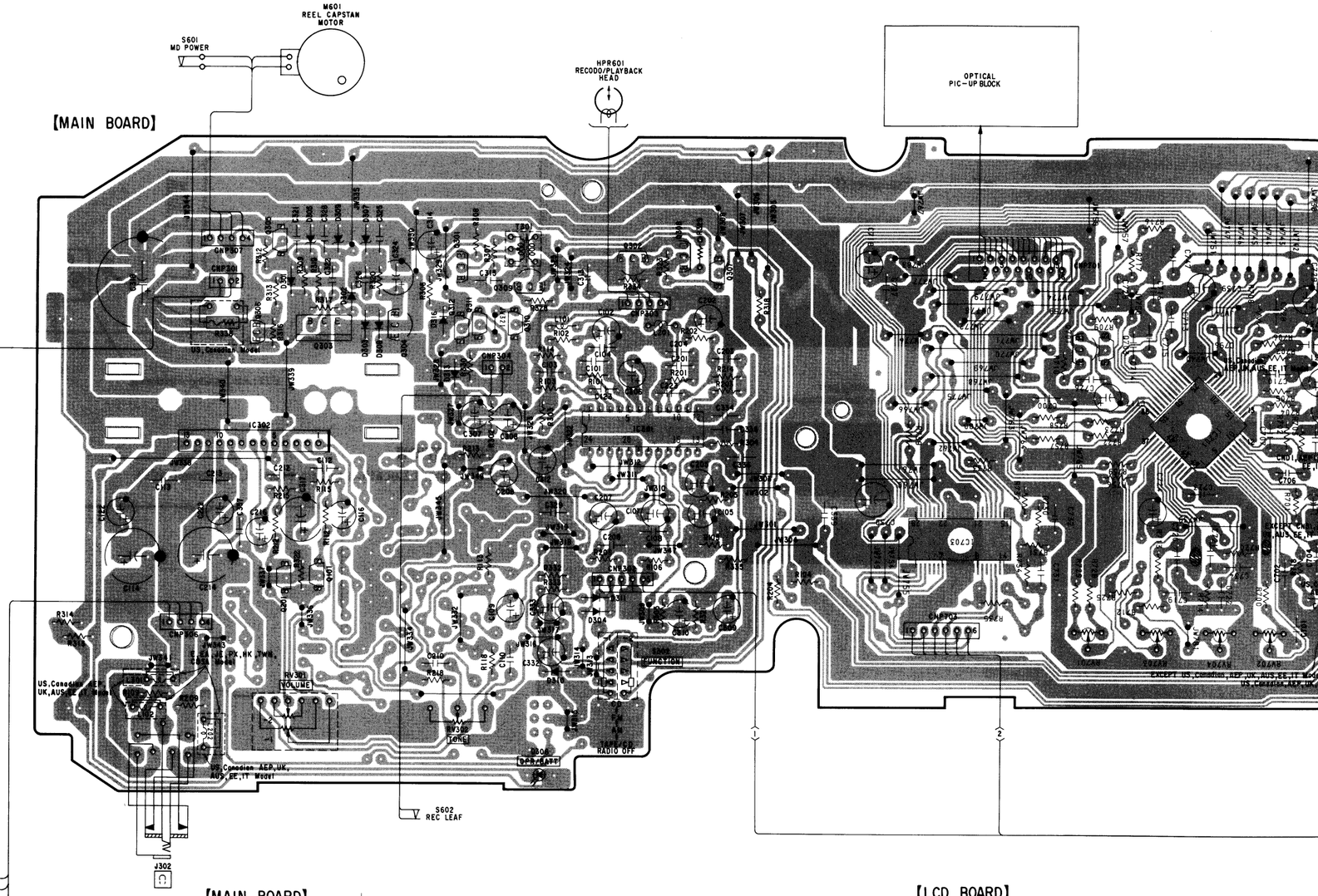
US,Canadian EA,TWN,CBSA Model

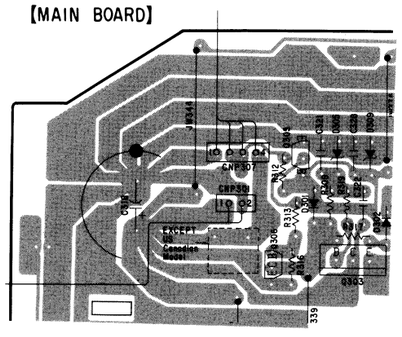
【POWER BOARD】



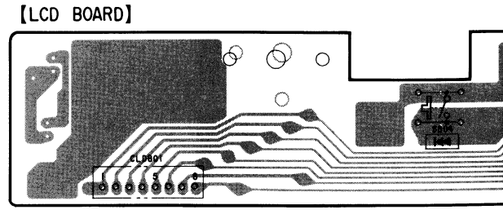
【MAIN BOARD】



【MAIN BOARD】



【LCD BOARD】



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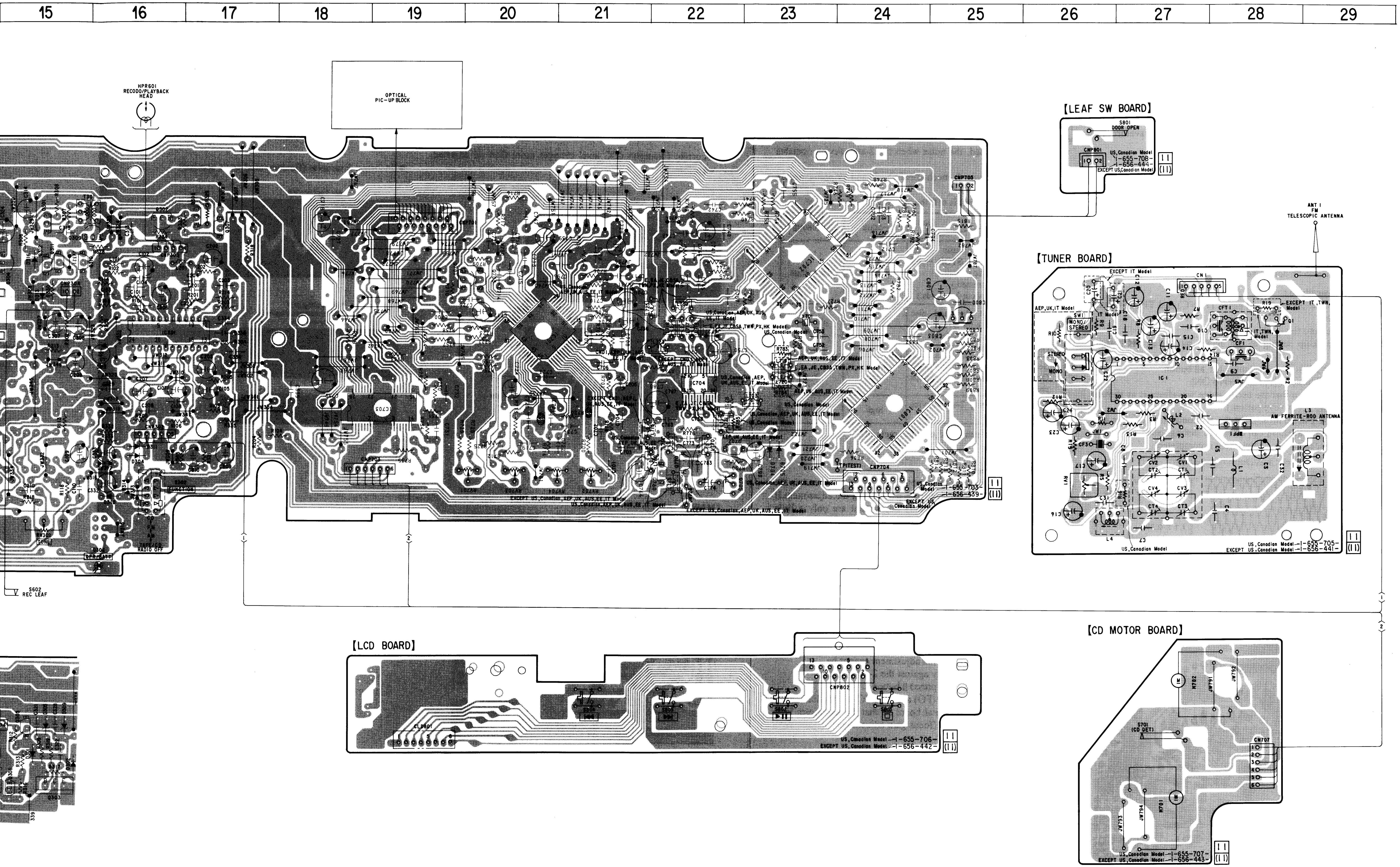

15 16 17 18 19 20 21 22 23 24 25 26 27 28 29
HPR601 RECODO/PLAYBACK HEAD
OPTICAL PIC-UP BLOCK
S602 REC LEAF
RADIO OFF
【LEAF SW BOARD】
S801 DOOR OPEN
CNP801
US,Canadian Model -1-655-708-
-1-656-444-
EXCEPT US,Canadian Model
CNP705
CNP704
US,Canadian Model -1-655-703-
-1-656-439-
EXCEPT US,Canadian Model
ANT 1 FM TELESCOPIC ANTENNA
【TUNER BOARD】
EXCEPT IT Model
AEP,UK,IT Model
SW1 MONO/STEREO
STEREO
MONO
EXCEPT IT,TWN, Model
IT,TWN, Model
IC1
AM FERRITE-ROD ANTENNA
US,Canadian Model
US,Canadian Model -1-655-705-
EXCEPT US,Canadian Model -1-656-441-
【LCD BOARD】
CLD801
CNP802
US,Canadian Model -1-655-706-
EXCEPT US,Canadian Model -1-656-442-
【CD MOTOR BOARD】
S701 (CD DET)
M702
M701
CN707
US,Canadian Model -1-655-707-
EXCEPT US,Canadian Model -1-656-443-

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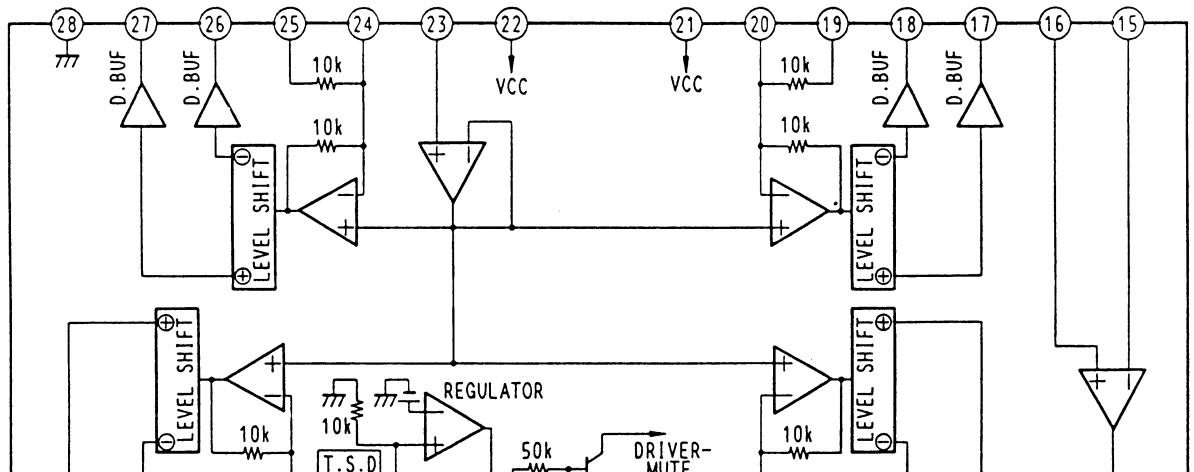
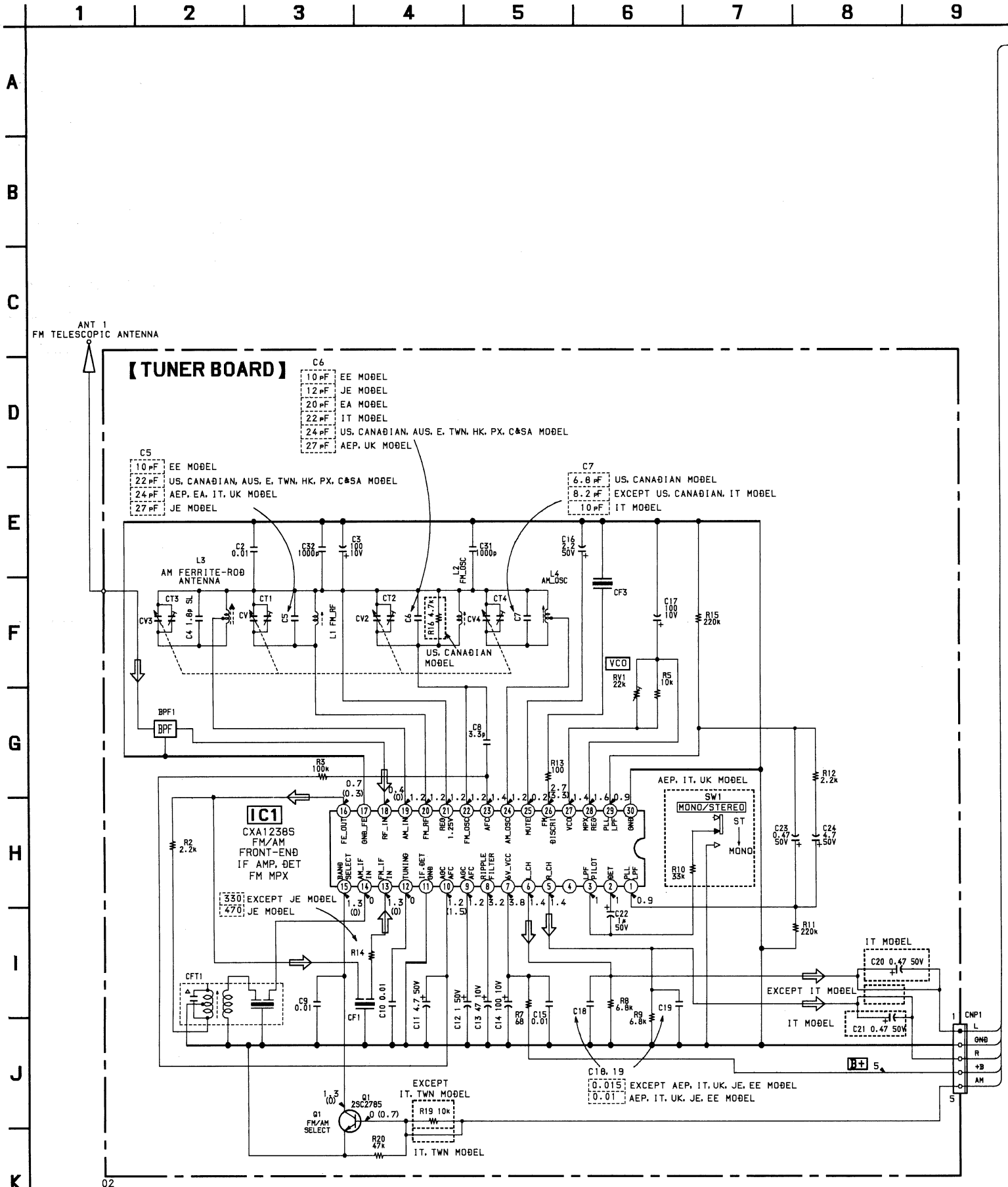
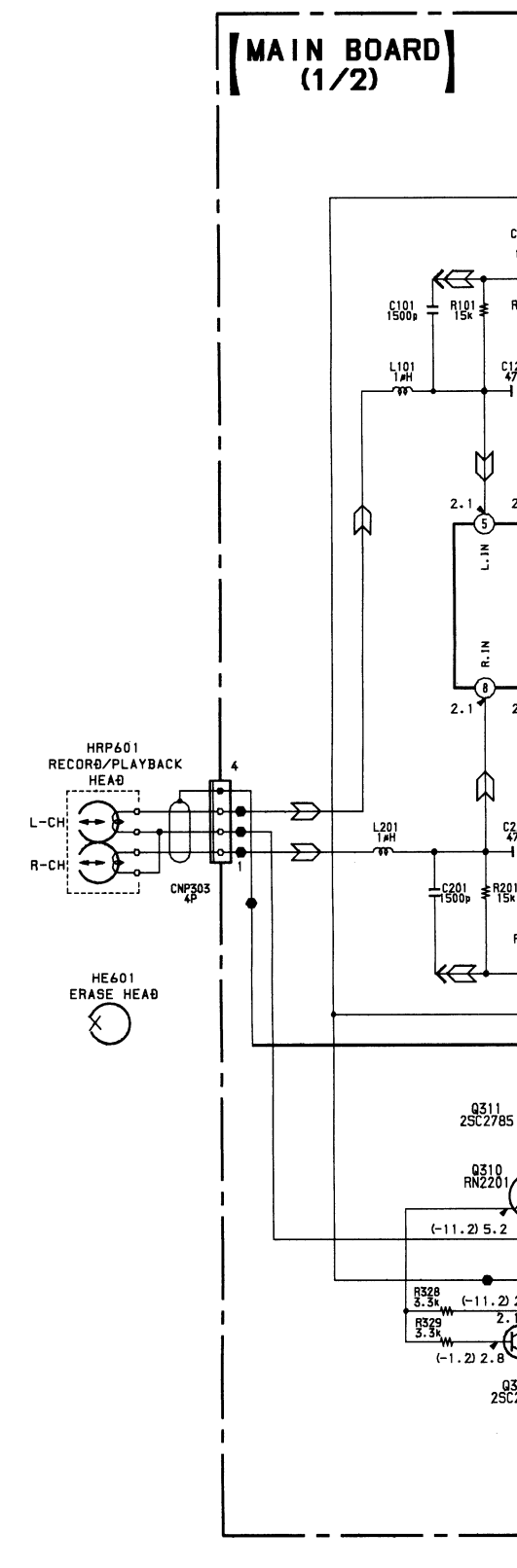
6-3. SCHEMATIC DIAGRAM (TUNER/TAPE/POWER SECTION)

● IC BLOCK DIAGRAM

IC703 BA6296FP







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Note :

- All capacitors are in 50WV or less are not tantalums.
- All resistors are in Ω specified.
- △ : internal compo

Note : The compone line with mark Replace only

- ▬ : B+ Line
- ▭ : adjustmen
- Voltage and wavefor no-signal (detuned)
  no mark : FM (RADI
  ( ) : AM (RADI
  no mark : PLAYBAC
  ( ) : REC (AUD
  no mark : STOP (CD
  ( ) : PLAYBAC

11 12 13 14 15 16 17 18 19 20 21 22 23

MAIN BOARD (2/2) A L-CH AGND R-CH

CNP302 5P L G R +B AM

[MAIN BOARD (1/2)]

IC302 LA4697 POWER AMP

IC301 TA2068N TAPE EQ/ REC AMP

IC301 TA2068N

RV301 VOLUME

RV302 TONE

Q101 RN1210 MUTING

Q201 RN1210 MUTING

S302 (1/2) FUNCTION TAPE → AM → FM → CD/RADIO OFF

S302 (2/2) FUNCTION TAPE → AM → FM → CD/ RADIO OFF

Q310-312 REC SWITCH

Q307 RN1201 REC SWITCH

Q302, 308, 309 REC/PLAY SWITCH

Q301 2SC1815GR BIAS OSC

Q303 2SD2396K REG

Q304 2SC2001 REG

Q306 2SA1048 DRIVE

D306 SLR-34VR ORP/BATT

CNP303 4P

CNP304 2P

CNP307 4P

CNJ307 4P

S602 REC LEAF

S601 MD POWER

M601 REEL, CAPSTAN MOTOR

MAIN BOARD (2/2)

EXCEPT US. C

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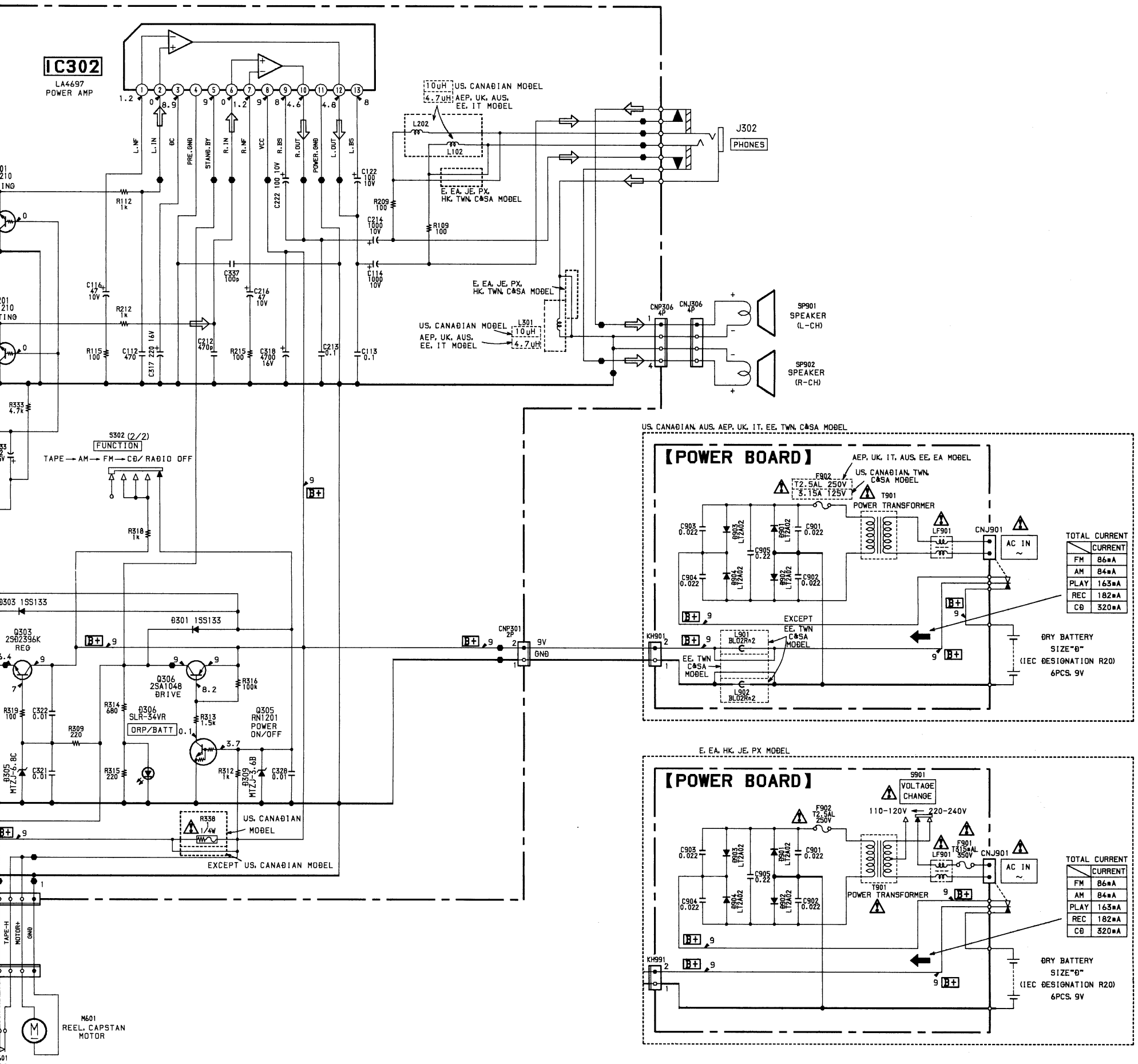
Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.

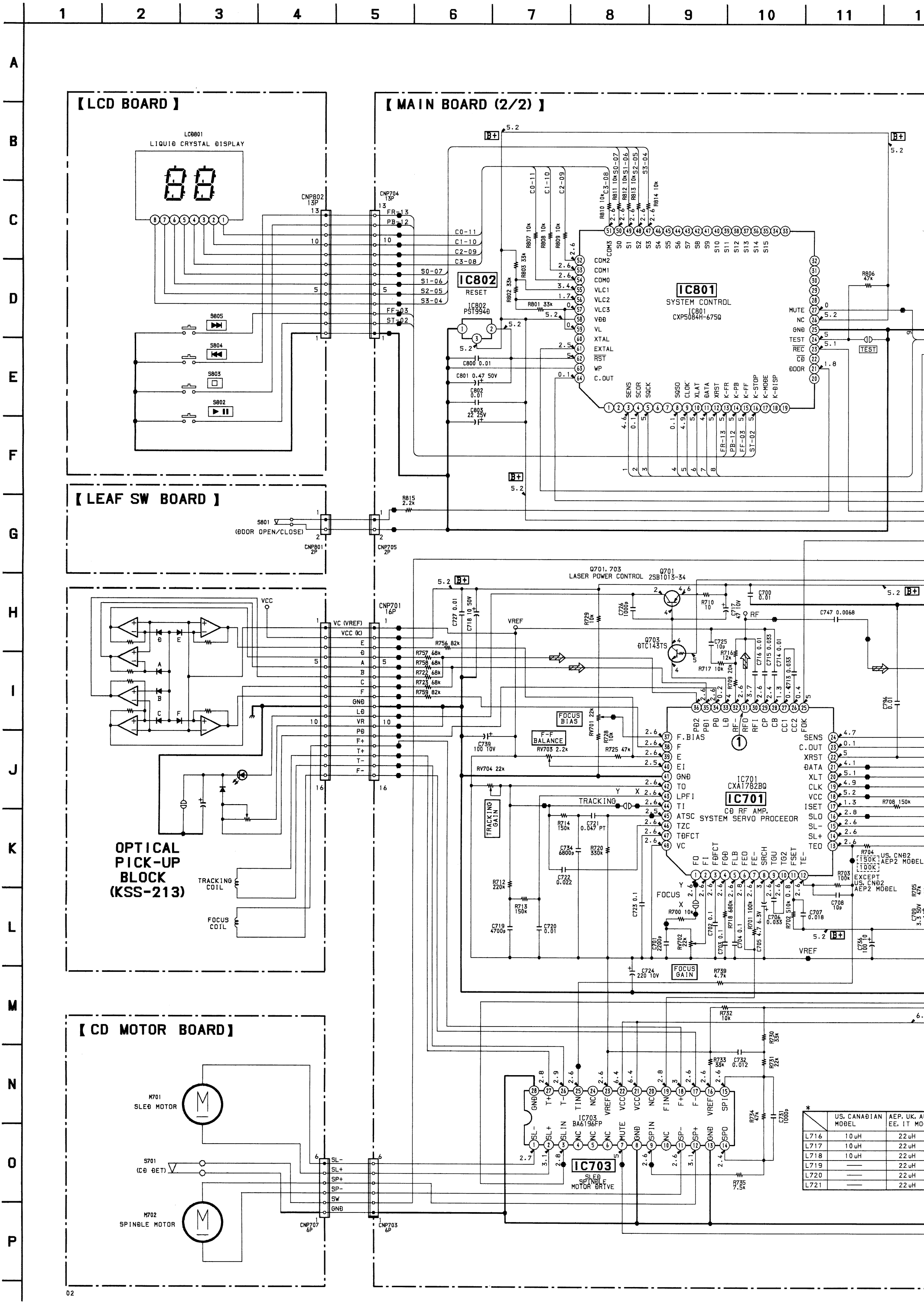
Note : The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- ▬▬ : B+ Line
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  - no mark : FM (RADIO SECTION)
  - ( ) : AM (RADIO SECTION)
  - no mark : PLAYBACK (AUDIO SECTION)
  - ( ) : REC (AUDIO SECTION)
  - no mark : STOP (CD SECTION)
  - ( ) : PLAYBACK (CD SECTION)
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM ▷ : PB ⇨ : CD
  ▷» : REC
- Abbreviations
  - IT : Italian
  - EE : East European
  - EA : Saudi Arabia
  - C&SA : Central & South America
  - TWN : Taiwan
  - HK : Hong Kong
  - JE : Tourist
  - AUS : Australian

21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33



http://www.manualscenter.com



*	US, CANADIAN MODEL	AEP, UK, AUSTRALIAN, EE, IT MODEL
L716	10 uH	22 uH
L717	10 uH	22 uH
L718	10 uH	22 uH
L719	—	22 uH
L720	—	22 uH
L721	—	22 uH

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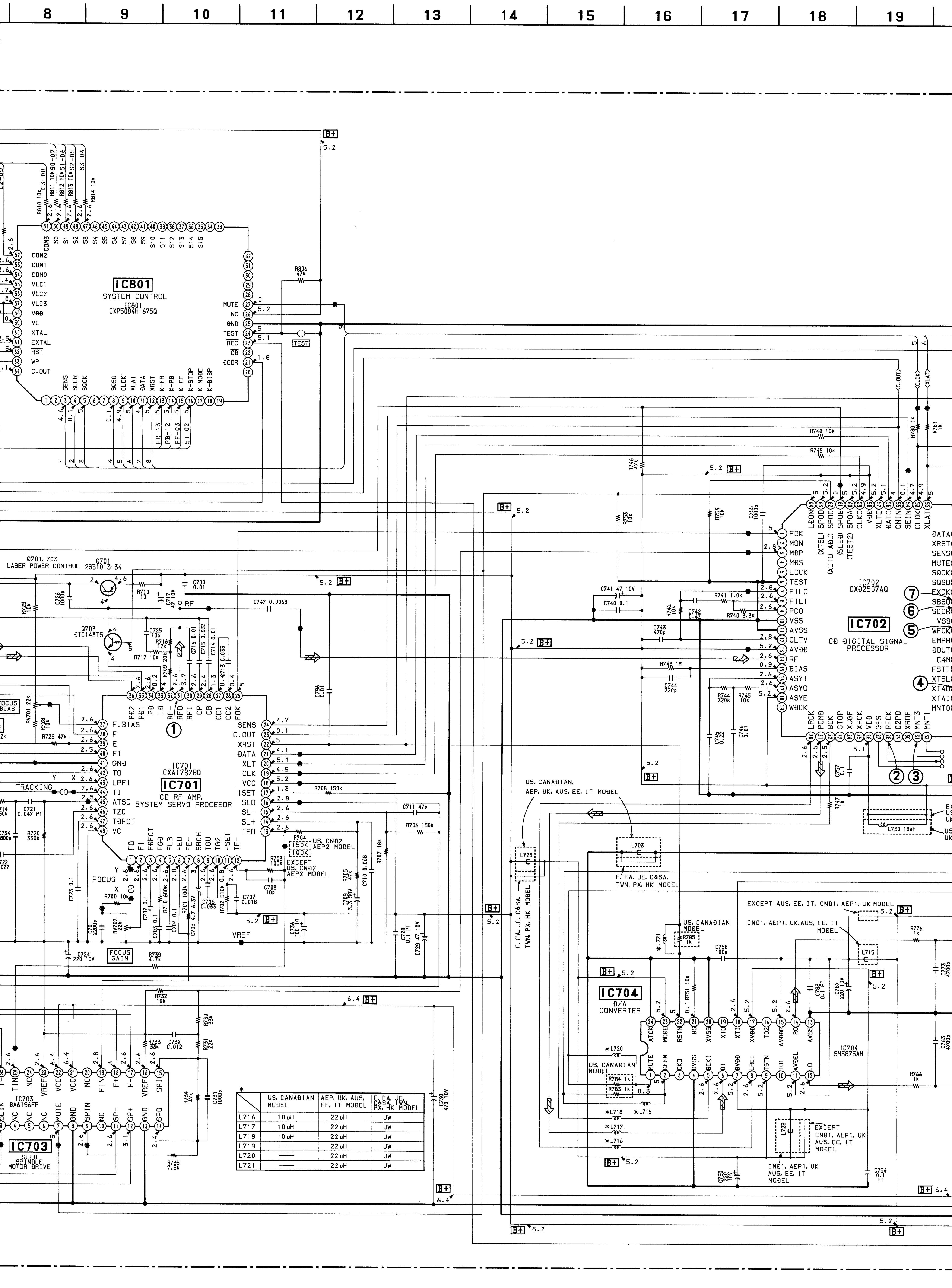
8
9
10
11
12
13
14
15
16
17
18
19
IC801
SYSTEM CONTROL
IC801
CXP5084H-675Q
IC701
CXA1782BQ
CD RF AMP.
SYSTEM SERVO PROCEEOR
Q701, 703
LASER POWER CONTROL
Q701
2SB1013-34
Q703
DTC143TS
TRACKING
FOCUS
FOCUS GAIN
FOCUS BIAS
TEST
VREF
IC702
CXD2507AQ
CD DIGITAL SIGNAL PROCESSOR
IC703
BA6196FP
SLED SPINDLE MOTOR DRIVE
IC704
D/A CONVERTER
IC704
SM5875AM
US, CANADIAN, AEP, UK, AUS, EE, IT MODEL
E, EA, JE, C&SA, TWN, PX, HK MODEL
US, CNĐ2 AEP2 MODEL
EXCEPT US, CNĐ2 AEP2 MODEL
EXCEPT AUS, EE, IT, CNĐ1, AEP1, UK MODEL
CNĐ1, AEP1, UK, AUS, EE, IT MODEL
US, CANADIAN MODEL
EXCEPT CNĐ1, AEP1, UK AUS, EE, IT MODEL
L730 10µH

*	US, CANADIAN MODEL	AEP, UK, AUS, EE, IT MODEL	E, EA, JE, C&SA, TWN, PX, HK MODEL
L716	10 uH	22 uH	JW
L717	10 uH	22 uH	JW
L718	10 uH	22 uH	JW
L719	——	22 uH	JW
L720	——	22 uH	JW
L721	——	22 uH	JW

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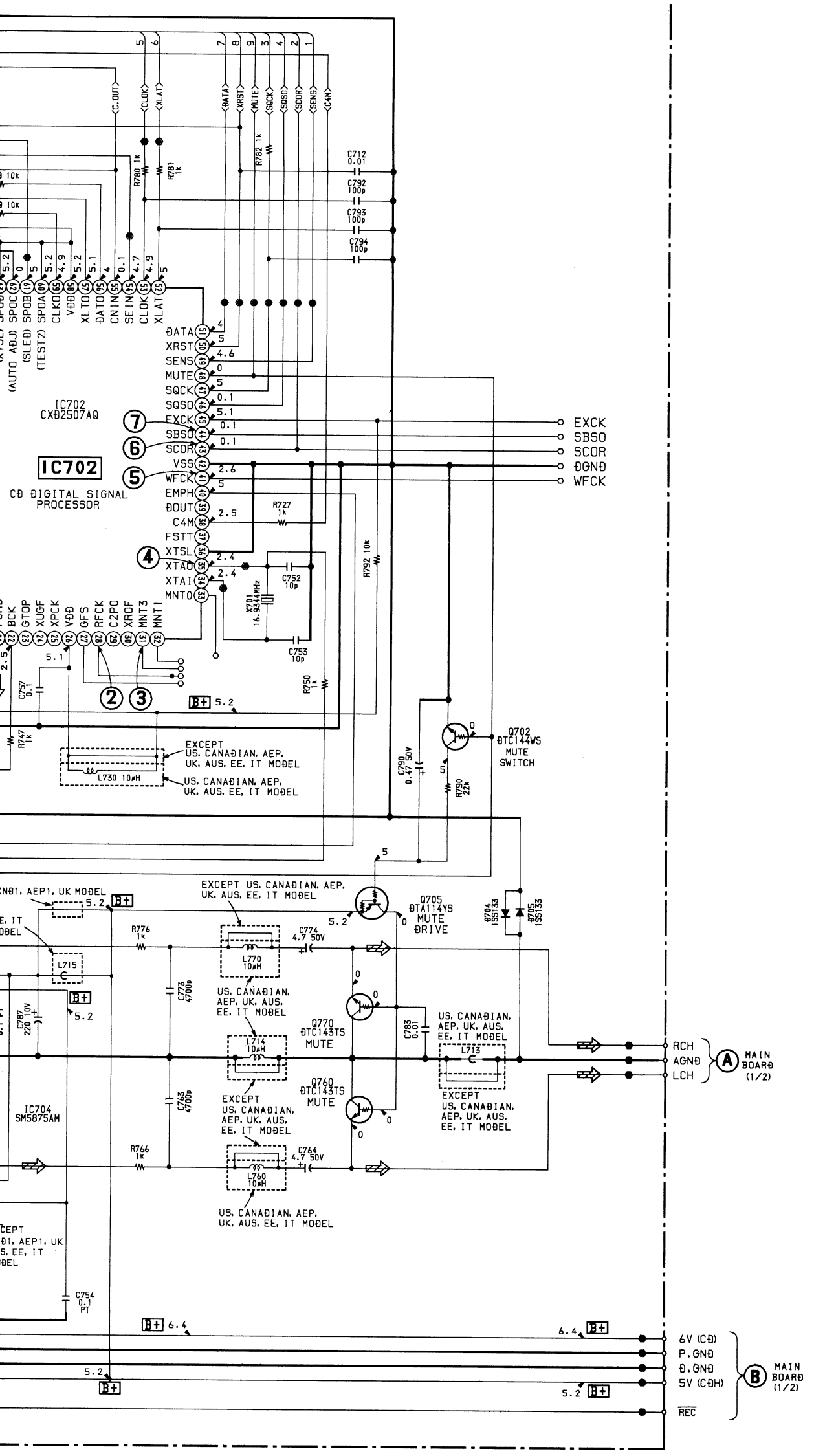
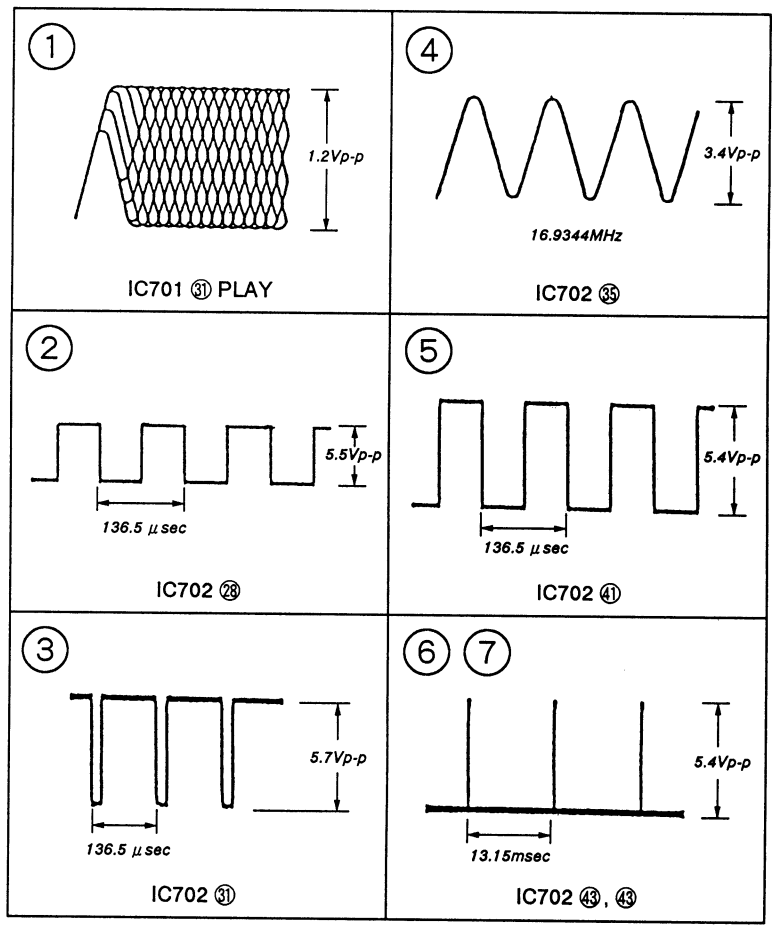


• WAVEFORMS



Note :

- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.

Note : The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

- ▬ : B+ Line
- ▭ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  - no mark : FM (RADIO SECTION)
  - ( ) : AM (RADIO SECTION)
  - no mark : PLAYBACK (AUDIO SECTION)
  - ( ) : REC (AUDIO SECTION)
  - no mark : STOP (CD SECTION)
  - ( ) : PLAYBACK (CD SECTION)
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - ⇨ : CD
- Abbreviations

IT	: Italian
EE	: East European
EA	: Saudi Arabia
C&SA	: Central & South America
TWN	: Taiwan
HK	: Hong Kong
JE	: Tourist
AUS	: Australian
CND 1	: Canadian (Made in China)
CND 2	: Canadian (Made in Malaysia)

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SECTION 7
EXPLODED VIEWS

NOTE :
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

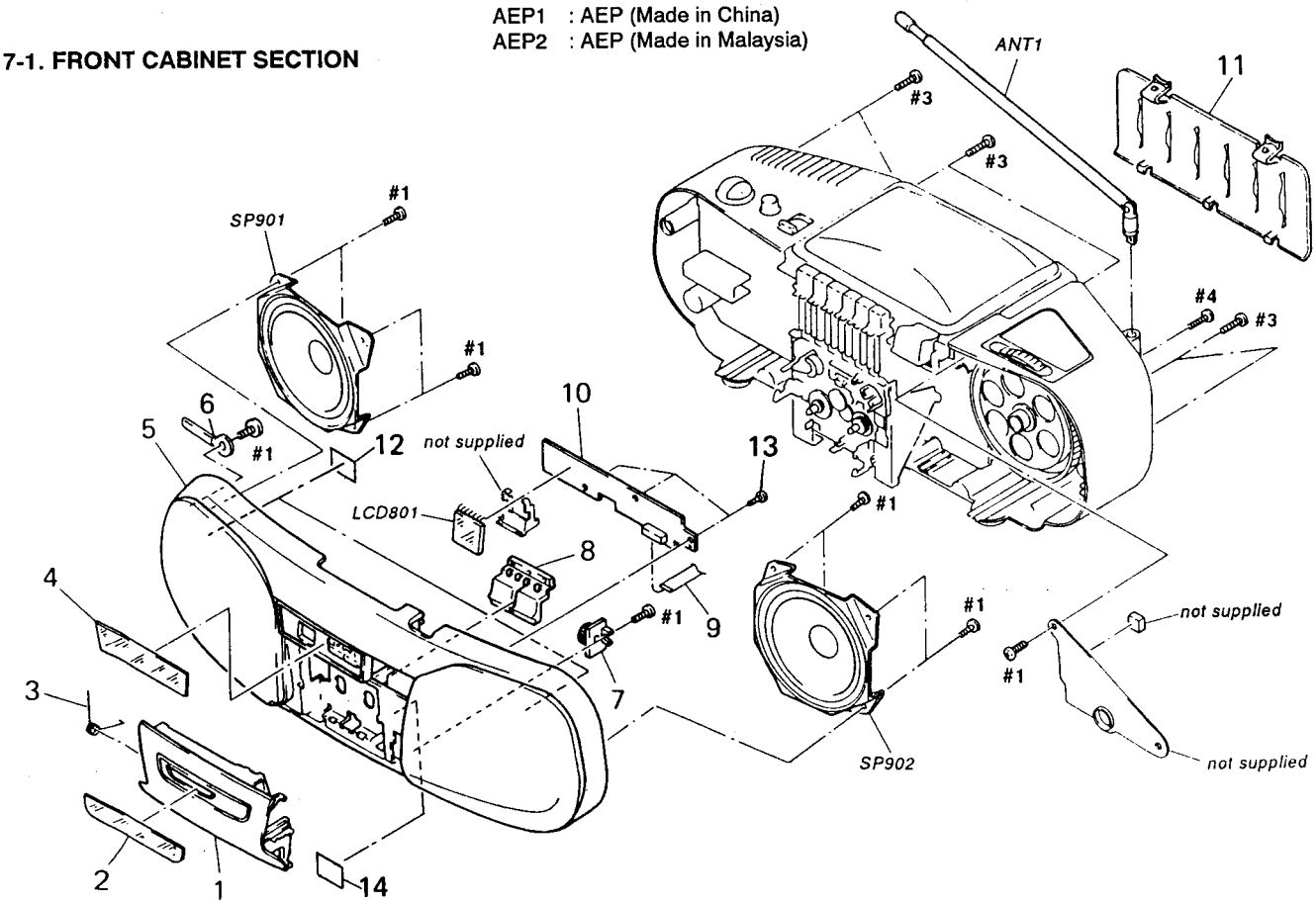
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation

CND1	: Canadian (Made in China)		
CND2	: Canadian (Made in Malaysia)		
IT	: Italian	EA	: Saudi Arabia
HK	: Hong Kong	AUS	: Australian
JE	: Tourist	EE	: East European
TWN	: Taiwan	C&SA	: Central and South America
AEP1	: AEP (Made in China)		
AEP2	: AEP (Made in Malaysia)		

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

7-1. FRONT CABINET SECTION



Ref. No.	Part No.	Description	Remark
1	3-910-121-11	HOLDER, CASSETTE (made in malaysia)	
1	3-923-722-01	HOLDER, CASSETTE (made in china)	
2	3-910-085-01	WINDOW, CASSETTE (made in malaysia)	
2	3-923-741-01	WINDOW, CASSETTE (made in china)	
3	3-910-086-01	SPRING (CASSETTE) (made in malaysia)	
3	3-923-750-01	SPRING (CASSETTE) (made in china)	
4	3-910-099-11	WINDOW, LCD (made in malaysia)	
4	3-923-742-01	WINDOW, LCD (made in china)	
5	X-3370-108-1	CABINET (FRONT) SUB ASSY (made in malaysia)	
5	X-3370-222-1	CABINET (FRONT) SUB ASSY (made in china)	
6	3-703-397-01	STOPPER, WIRING	
7	3-351-377-01	DAMPER	
8	3-910-117-01	BUTTON, CD (made in malaysia)	
8	3-923-730-01	BUTTON, CD (made in china)	
9	1-765-085-11	WIRE, PARALLEL (FFC) (13 CORE)	

Ref. No.	Part No.	Description	Remark
* 10	1-656-824-11	LCD BOARD (AEP2, C&SA, EA, TWN)	
* 10	1-656-442-11	LCD BOARD (AEP1, UK, E, AUS, EE, HK, IT, JE, PX)	
* 10	1-657-308-11	LCD BOARD (CND1)	
* 10	1-655-706-11	LCD BOARD (US, CND2)	
11	3-915-535-21	LID, BATTERY CASE (made in malaysia)	
11	3-926-244-01	LID, BATTERY CASE (made in china)	
* 12	3-376-847-01	CUSHION, SARANET	
13	4-951-620-01	SCREW (2.6×8), +BVTP	
14	3-379-497-01	CUSHION, SARANET	
ANT1	1-501-388-11	ANTENNA, TELESCOPIC	
LCD801	1-810-442-11	DISPLAY PANEL, LIQUID CRYSTAL	
SP901	1-504-548-11	SPEAKER (10CM) (L-CH) (US, CND)	
SP901	1-504-548-21	SPEAKER (10CM) (L-CH) (EXCEPT US, CND)	
SP902	1-504-548-11	SPEAKER (10CM) (R-CH) (US, CND)	
SP902	1-504-548-21	SPEAKER (10CM) (R-CH) (EXCEPT US, CND)	

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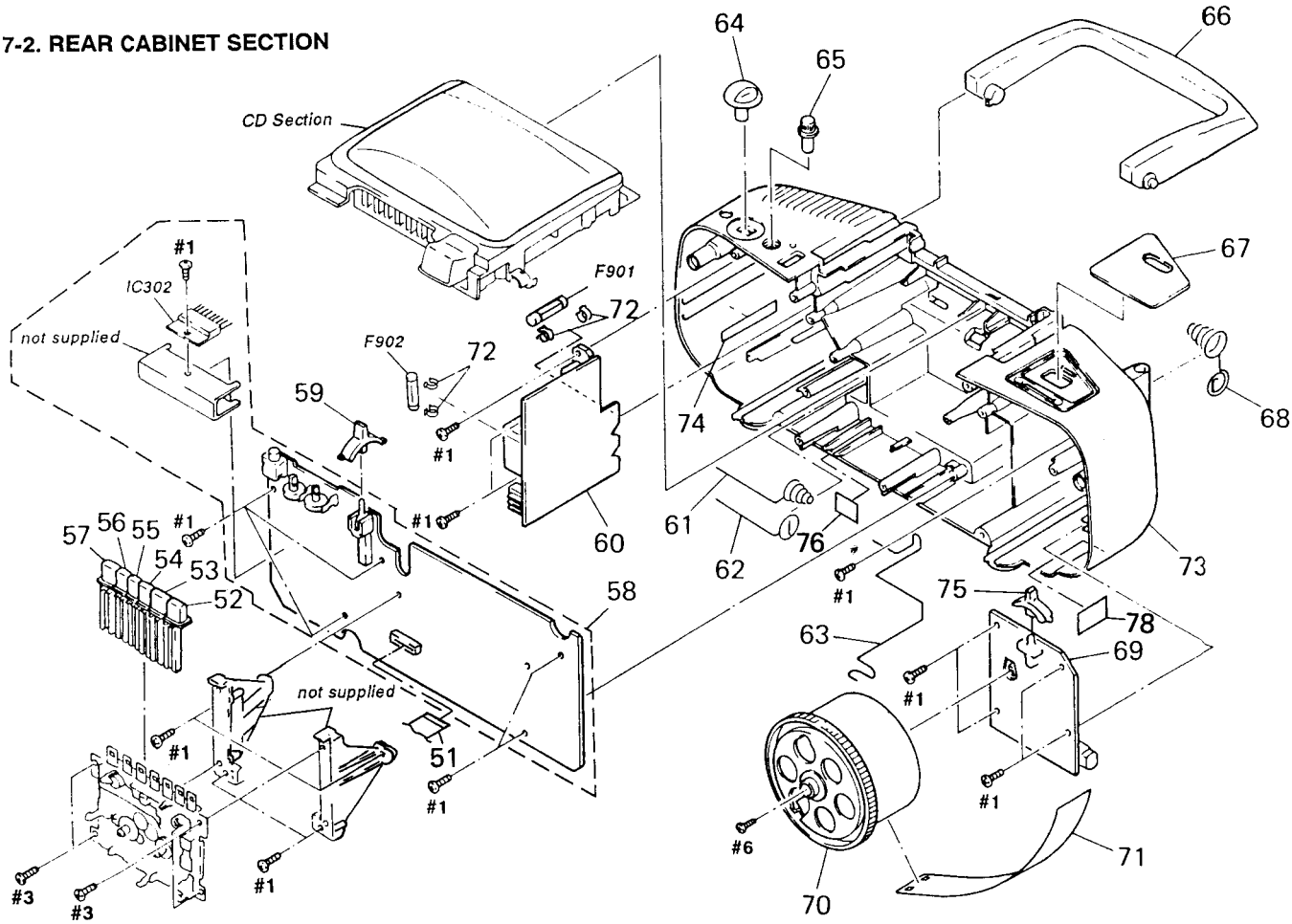
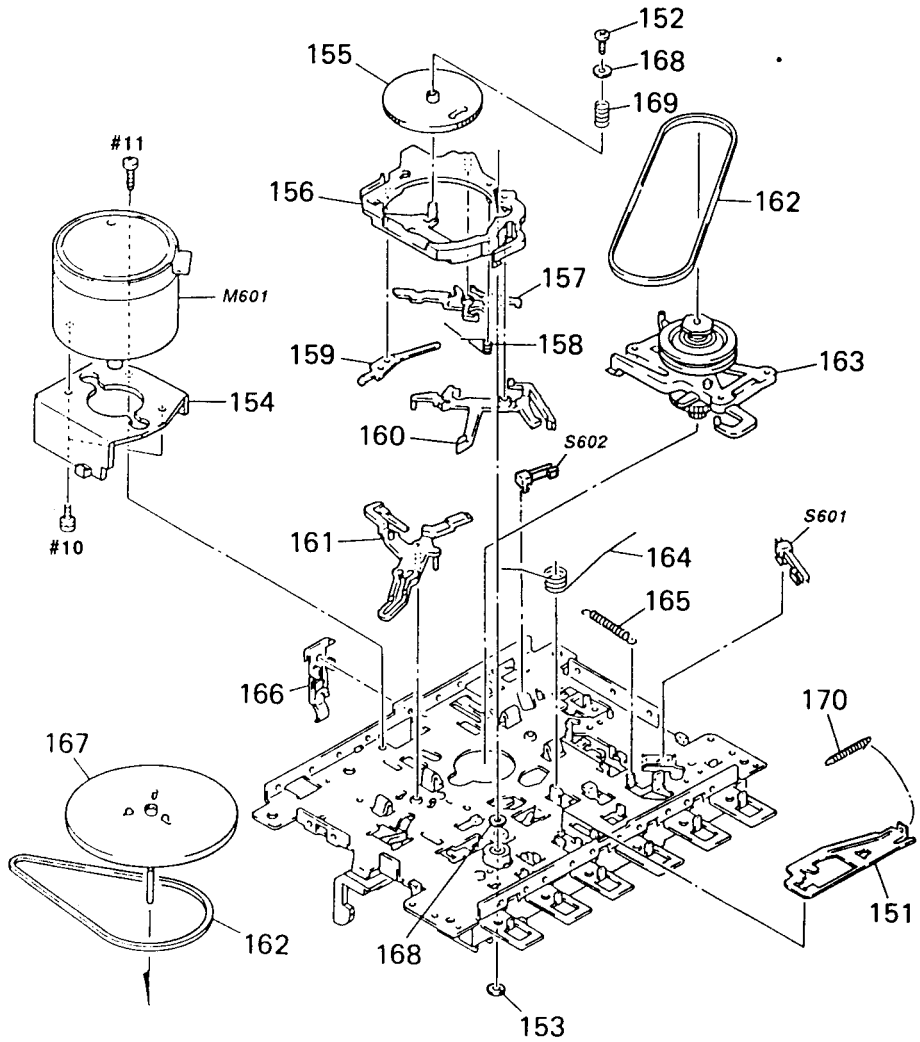
7-2. REAR CABINET SECTION



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
51	1-769-789-11	WIRE (FLAT TYPE) (16 CORE)	
52	3-910-103-01	BUTTON (REC), MD (made in malaysia)	
52	3-923-725-01	BUTTON (REC), MD (made in china)	
53	3-910-106-01	BUTTON (PLAY), MD (made in malaysia)	
53	3-923-728-01	BUTTON (PLAY), MD (made in china)	
54	3-910-105-01	BUTTON (REW), MD (made in malaysia)	
54	3-923-727-01	BUTTON (REW), MD (made in china)	
55	3-910-104-01	BUTTON (FF), MD (made in malaysia)	
55	3-923-726-01	BUTTON (FF), MD (made in china)	
56	3-910-107-01	BUTTON (STOP), MD (made in malaysia)	
56	3-923-729-01	BUTTON (STOP), MD (made in china)	
57	3-910-102-01	BUTTON (PAUSE), MD (made in malaysia)	
57	3-923-724-01	BUTTON (PAUSE), MD (made in china)	
58	A-3269-910-A	MAIN BOARD, COMPLETE (US, CND2)	
* 58	A-3305-058-A	MAIN BOARD, COMPLETE	(AEP1, UK, AUS, EE, IT)
* 58	A-3305-077-A	MAIN BOARD, COMPLETE (AEP2)	
* 58	A-3305-154-A	MAIN BOARD, COMPLETE (C&SA, EA, TWN)	
* 58	A-3305-162-A	MAIN BOARD, COMPLETE (CND1)	
* 58	A-3305-182-A	MAIN BOARD, COMPLETE (E, HK, JE, PX)	
59	3-369-039-01	KNOB (FUNCTION) (made in malaysia)	
59	3-923-738-01	KNOB (FUNCTION) (made in china)	
* 60	1-655-704-11	POWER BOARD (US, CND2)	
* 60	1-656-822-11	POWER BOARD (AEP2, C&SA, EA, TWN)	
* 60	1-657-306-11	POWER BOARD (CND1)	
* 60	1-656-440-11	POWER BOARD	(AEP1, UK, E, AUS, EE, HK, IT, JE, PX)
61	3-910-090-01	TERMINAL (-), BATTERY (made in malaysia)	
61	3-923-753-01	TERMINAL (-), BATTERY (made in china)	
62	3-910-087-01	TERMINAL (+), BATTERY (made in malaysia)	
62	3-923-752-01	TERMINAL (+), BATTERY (made in china)	
* 63	3-910-091-01	TERMINAL, ANTENNA (made in malaysia)	
* 63	3-923-754-01	TERMINAL, ANTENNA (made in china)	
64	3-910-115-01	KNOB (VOL) (made in malaysia)	
64	3-923-735-01	KNOB (VOL) (made in china)	
65	3-910-097-01	KNOB (TONE) (made in malaysia)	
65	3-923-737-01	KNOB (TONE) (made in china)	
66	X-3370-107-1	HANDLE ASSY (made in malaysia)	
66	X-3370-223-1	HANDLE ASSY (made in china)	
67	3-910-100-31	WINDOW, TU (US, CND2, C&SA, EA, TWN)	
67	3-910-100-71	WINDOW, TU (AEP2)	
67	3-923-743-01	WINDOW, TU (AEP1, UK, IT)	
67	3-923-946-01	WINDOW, TU (CND1, E, AUS, EE, HK, JE, PX)	
68	3-386-979-01	SPRING (+, -), BATTERY COIL	(made in malaysia)
68	3-923-751-01	SPRING (+, -), BATTERY COIL	(made in china)
69	A-3269-908-A	TUNER BOARD, COMPLETE (US, CND2)	
* 69	A-3305-057-A	TUNER BOARD, COMPLETE (AEP1, UK)	
* 69	A-3305-078-A	TUNER BOARD, COMPLETE (AEP2)	
* 69	A-3305-155-A	TUNER BOARD, COMPLETE (C&SA, TWN)	
* 69	A-3305-161-A	TUNER BOARD, COMPLETE (CND1)	
* 69	A-3305-178-A	TUNER BOARD, COMPLETE (EA)	
* 69	A-3305-179-A	TUNER BOARD, COMPLETE (EE)	
* 69	A-3305-181-A	TUNER BOARD, COMPLETE (E, AUS, HK, PX)	
* 69	A-3305-183-A	TUNER BOARD, COMPLETE (IT)	
* 69	A-3305-184-A	TUNER BOARD, COMPLETE (JE)	
70	3-910-101-01	DIAL, TU (made in malaysia)	
70	3-923-723-01	DIAL, TU (made in china)	
71	3-923-005-01	SHEET, TU (US, CND2)	
71	3-923-005-11	SHEET, TU (AEP2)	
71	3-923-005-31	SHEET, TU (C&SA, TWN)	
71	3-923-005-41	SHEET, TU (EA)	
71	3-923-744-01	SHEET, TU (AEP1, UK)	
71	3-923-744-11	SHEET, TU (IT)	
71	3-923-744-21	SHEET, TU (EE)	
71	3-923-744-31	SHEET, TU (E, AUS, HK, PX)	
71	3-923-744-51	SHEET, TU (JE)	
71	3-923-744-61	SHEET, TU (CND1)	
72	1-533-217-31	HOLDER, FUSE	
73	3-910-122-81	CABINET (REAR) (US)	
73	3-910-122-91	CABINET (REAR) (CND2, AEP2, C&SA, TWN)	
73	3-923-719-01	CABINET (REAR) (AEP1)	
73	3-923-719-11	CABINET (REAR) (CND1, UK, AUS, EE, IT)	
73	3-923-719-21	CABINET (REAR) (E, HK, JE, PX)	
73	3-924-156-31	CABINET (REAR) (EA)	
74	3-831-441-XX	CUSHION, STOPPER	
75	3-910-114-01	KNOB, MONO/ST (AEP2)	
75	3-923-734-01	BUTTON (MONO-ST) (AEP1, UK, IT)	
* 76	3-378-109-01	CUSHION, SARANET	
* 78	4-941-548-01	LABEL, CLASS (1) (AEP, UK, EA, EE, IT, JE)	
IC302	8-759-820-22	IC LA4597	
⚠F901	1-532-235-00	FUSE (315mA 250V) (E, EA, HK, JE, PX)	
⚠F902	1-532-286-00	FUSE (2.5A 250V)	(AEP, UK, E, AUS, EA, EE, HK, IT, JE, PX)
⚠F902	1-576-107-11	FUSE (3.15A 125V) (US, CND, C&SA, TWN)	

7-3. MECHANISM DECK SECTION (1)
(MF-D8/2)



Ref. No.	Part No.	Description	Remark
151	3-379-844-01	PLATE, STOP, FR	
152	3-366-352-01	SCREW	
153	3-362-980-01	WASHER	
* 154	3-362-988-01	HOLDER, MOTOR	
155	X-3363-315-1	GEAR, CAM	
156	3-362-973-01	AS (BASE)	
157	3-362-976-01	LEVER, CONTROL	
158	3-362-977-01	SPRING	
159	3-362-978-01	SPRING, PLATE	
160	3-362-975-01	LEVER, SENSOR	
161	3-387-697-01	SENSOR	
162	3-362-989-01	BELT	

Ref. No.	Part No.	Description	Remark
163	3-362-969-01	IDLER ASSY, PF	
164	3-362-970-01	SPRING	
165	3-362-971-01	SPRING	
166	3-991-189-01	CASSETTE SPRING	
167	3-387-698-01	FW ASSY	
168	3-369-961-01	WASHER	
169	3-369-962-01	SPRING, COMPRESSION	
170	3-379-843-01	SPRING	
M601	X-3366-491-1	MOTOR ASSY	
S601	1-692-434-11	SWITCH, LEAF (MD POWER)	
S602	1-692-434-11	SWITCH, LEAF (REC)	

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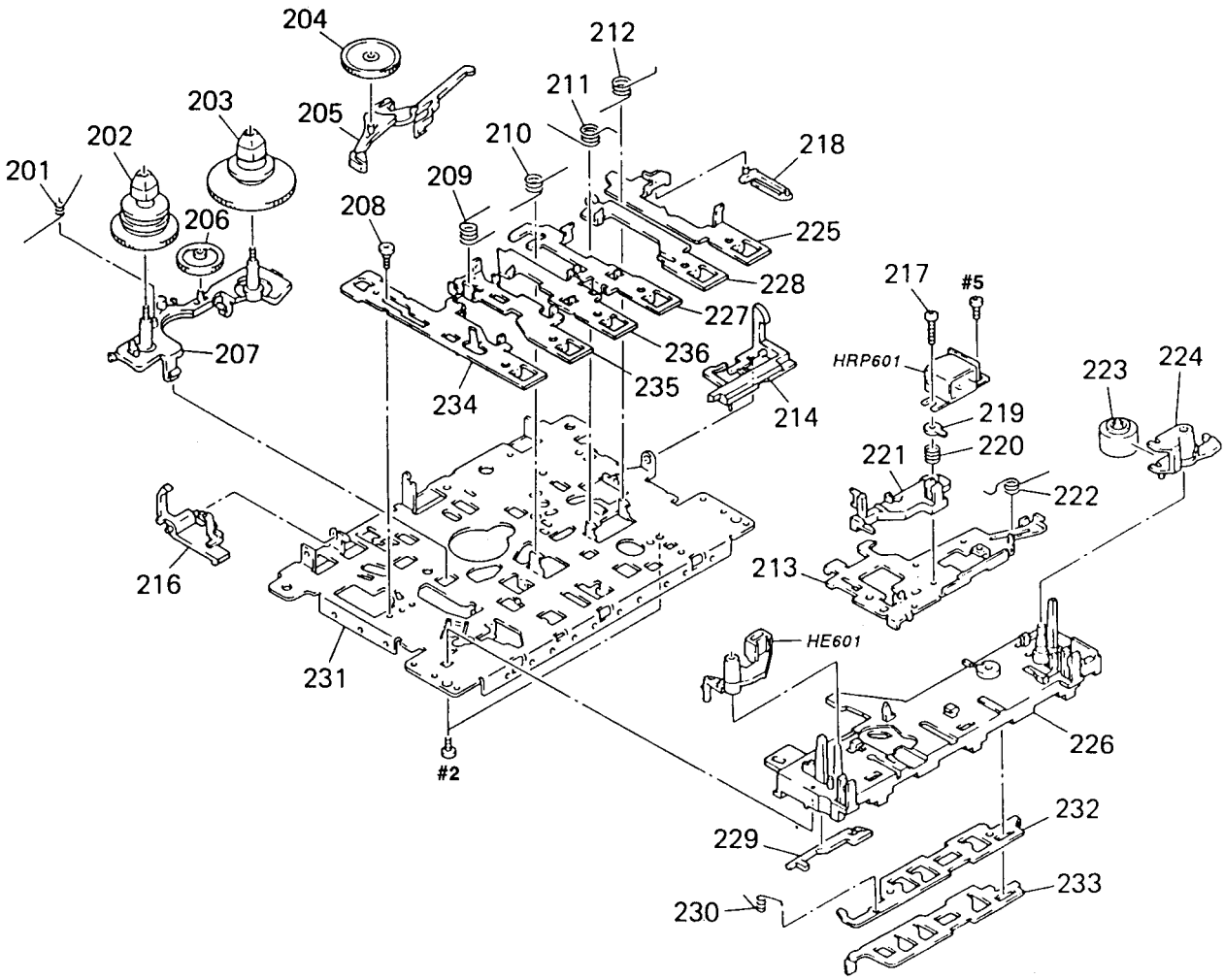
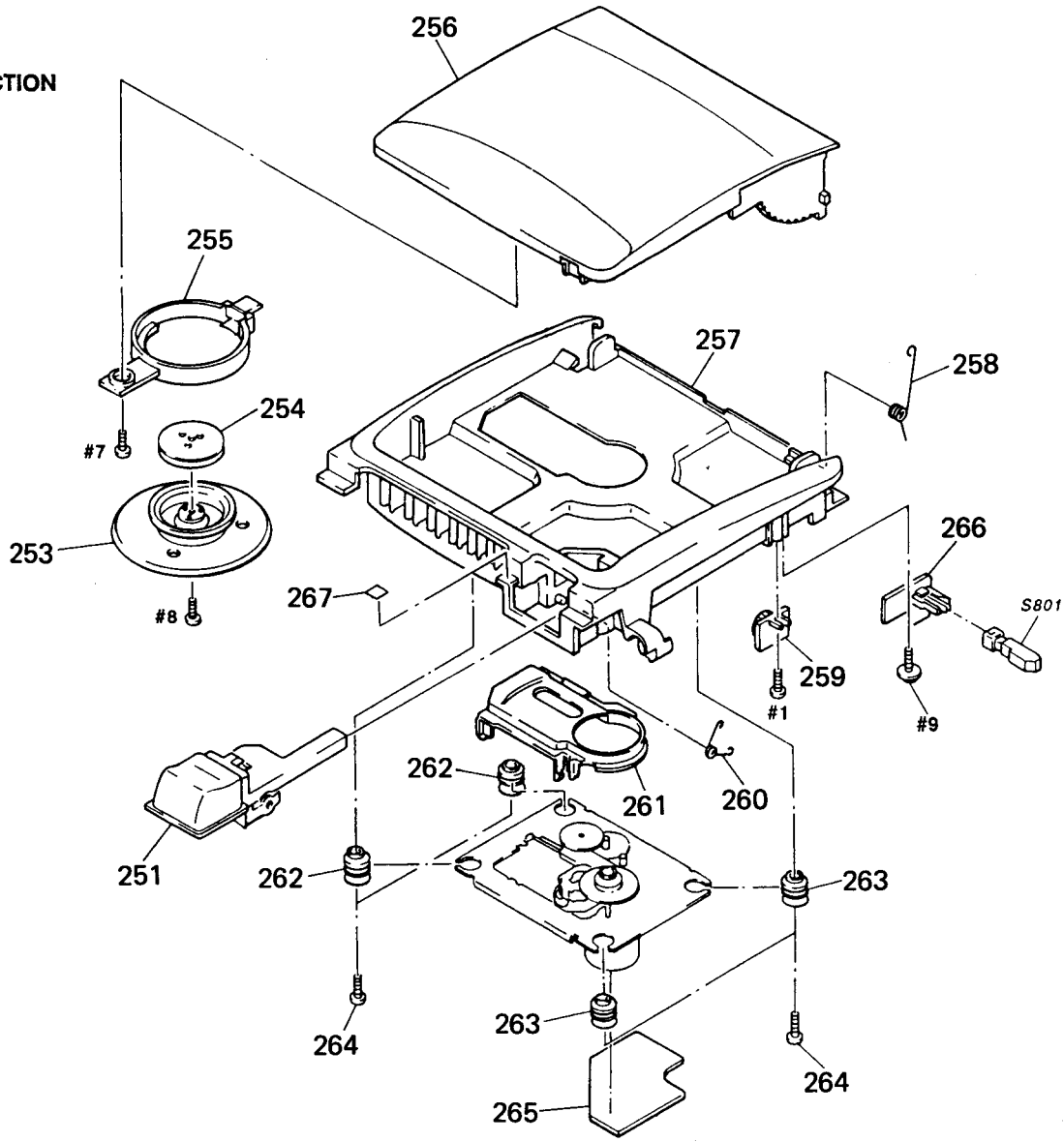
7-4. MECHANISM DECK SECTION (2)
(MF-D8/2)



Ref. No.	Part No.	Description	Remark
201	3-917-805-01	SPRING	
202	X-3363-611-1	REEL, S	
203	3-362-962-01	REEL ASSY, T	
204	3-362-960-01	PULLEY, IDLER	
205	3-362-959-01	ARM, IDLER	
206	3-362-965-01	IDLER, FF	
207	3-362-961-01	SPINDLE (BASE)	
208	3-362-958-01	SCREW	
209	3-362-954-01	SPRING	
210	3-362-955-01	SPRING	
211	3-362-956-01	SPRING	
212	3-362-957-01	SPRING	
* 213	3-362-984-01	HEAD (BASE)	
214	3-362-968-01	LEVER, EJECT	
216	3-362-966-01	INTER LOCK	
217	3-363-229-01	SCREW	
218	3-362-953-01	ARM, PAUSE	
219	3-363-230-01	LUG	
220	3-362-985-01	SPRING	

Ref. No.	Part No.	Description	Remark
221	3-362-986-01	HOLDER, HEAD	
222	3-362-983-01	SPRING	
223	3-362-982-01	PINCH ROLLER	
224	3-362-981-01	PINCH ARM	
* 225	3-362-952-01	LEVER, PAUSE	
226	3-362-942-01	FRAME ASSY	
* 227	3-362-950-01	LEVER, FF	
* 228	3-362-951-01	LEVER, SE	
229	3-362-944-01	STOPPER, REC	
230	3-362-945-01	SPRING	
* 231	3-362-941-01	CHASSIS	
* 232	3-362-943-01	PLATE, FUNCTION	
* 233	3-362-946-01	LEVER, SW	
* 234	3-362-947-01	LEVER, REC	
* 235	3-362-948-01	LEVER, PLAY	
* 236	3-362-949-01	LEVER, REW	
HE601	1-500-031-11	HEAD, MAGNETIC (ERASE)	
HRP601	1-500-168-11	HEAD, MAGNETIC (RECORD/PLAYBACK)	

7-5. CD SECTION



Ref. No.	Part No.	Description	Remark
251	3-910-108-21	BUTTON (CD) (EJECT)	(made in malaysia)
251	3-923-731-01	BUTTON (CD) (EJECT)	(made in china)
253	3-923-497-01	PLATE, CHUCK	(made in malaysia)
253	3-923-498-01	PLATE, CHUCK	(made in china)
254	1-452-732-11	MAGNET	
255	3-910-113-01	HOLDER (CHUCK)	(made in malaysia)
255	3-923-733-01	HOLDER (CHUCK)	(made in china)
256	3-910-123-31	LID, CD	(made in malaysia)
256	3-923-721-01	LID, CD	(made in china)
257	3-910-124-32	CABINET (CD)	(made in malaysia)
257	3-923-720-01	CABINET (CD)	(made in china)
258	3-910-089-01	SPRING, CD UP	(made in malaysia)
258	3-923-756-01	SPRING, CD UP	(made in china)
259	3-351-377-01	DAMPER	
260	3-910-088-01	SPRING, CD EJECT RETURN	(made in malaysia)
260	3-923-755-01	SPRING, CD EJECT RETURN	(made in china)

Ref. No.	Part No.	Description	Remark
261	3-910-116-01	COVER, CD	(made in malaysia)
261	3-923-736-01	COVER, CD	(made in china)
262	3-910-095-11	RUBBER, VIBRATION PROOF	
263	3-910-095-01	RUBBER, VIBRATION PROOF	
264	3-916-006-01	SCREW (2.6×16)	
* 265	1-655-707-11	CD MOTOR BOARD	(US, CND2)
* 265	1-656-443-11	CD MOTOR BOARD	(AEP1, UK, E, AUS, EE, HK, IT, JE, PX)
* 265	1-657-309-11	CD MOTOR BOARD	(CND1)
* 265	1-656-825-11	CD MOTOR BOARD	(AEP2, C&SA, EA, TWN)
* 266	1-657-310-11	LEAF SW BOARD	(CND1)
* 266	1-655-708-11	LEAF SW BOARD	(US, CND2)
* 266	1-656-444-11	LEAF SW BOARD	(AEP1, UK, E, AUS, EE, HK, IT, JE, PX)
* 266	1-656-826-11	LEAF SW BOARD	(AEP2, C&SA, EA, TWN)
267	3-831-441-11	CUSHION	
S801	1-571-936-11	SWITCH, LEAF (DOOR OPEN/CLOSE)	

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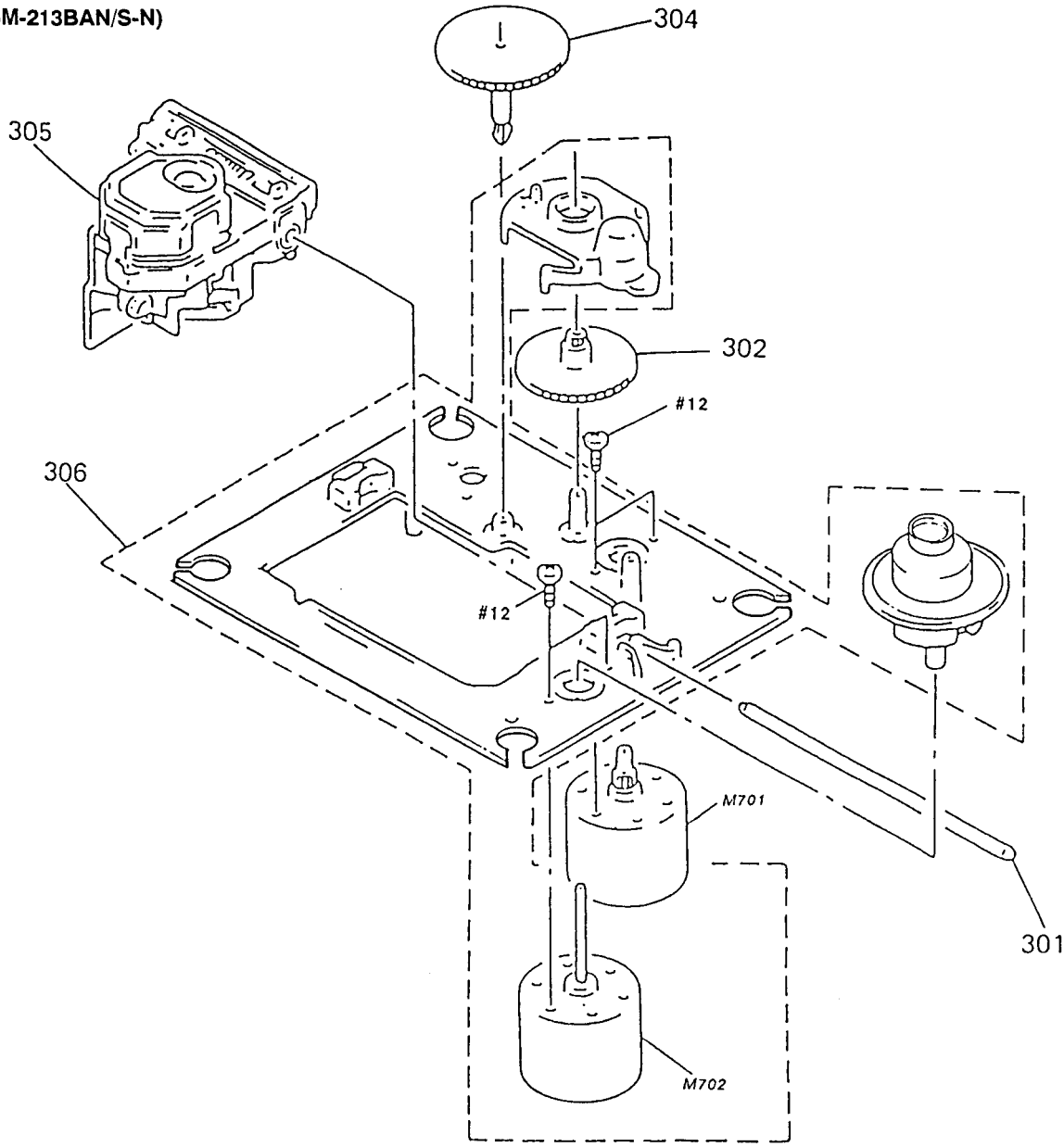
7-6. OPTICAL PICK-UP SECTION (KSM-213BAN/S-N)



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
301	2-626-908-01	SHAFT (S), SLED	
302	2-627-003-01	GEAR (B) (RP)	
304	2-626-907-01	GEAR (A) (S)	
⚠305	8-848-376-11	DEVICE, OPTICAL KSS-213B/S-RP	

Ref. No.	Part No.	Description	Remark
306	X-2625-770-1	CHASSIS ASSY (MB) (RP), MOTOR (INCLUDING M702) (SPINDLE)	
M701	X-3625-769-1	GEAR ASSY (MB) (RP), MOTOR (SLED)	

SECTION 8
ELECTRICAL PARTS LIST

CD MOTOR | LCD | LEAF SW | MAIN

NOTE :
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE : Metal oxide-film resistor
  F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ , for example :
  uA.... : μ A.... , uPA.... : μ PA....
  uPB.... : μ PB.... , uPC.... : μ PC....
  uPD.... : μ PD....
- CAPACITORS
  uF : μ F
- COILS
  uH : μ H
- Abbreviation

CND1	: Canadian (Made in China)	AEP1	: AEP (Made in China)
CND2	: Canadian (Made in Malaysia)	AEP2	: AEP (Made in Malaysia)
IT	: Italian	EA	: Saudi Arabia
HK	: Hong Kong	AUS	: Australian
JE	: Tourist	EE	: East European
TWN	: Taiwan	C&SA	: Central and South America

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark
*	1-655-707-11	CD MOTOR BOARD (US, CND2)	
*	1-656-443-11	CD MOTOR BOARD (AEP1, UK, E, AUS, EE, HK, IT, JE, PX)	
*	1-657-309-11	CD MOTOR BOARD (CND1)	
*	1-656-825-11	CD MOTOR BOARD (AEP2, C&SA, EA, TWN)	
		**********	
		< CONNECTOR >	
* CNP707	1-580-167-11	PIN, CONNECTOR (PC BOARD) 6P	
		< SWITCH >	
S701	1-571-936-11	SWITCH, LEAF (CD DET)	
**********			
*	1-656-824-11	LCD BOARD (AEP2, C&SA, EA, TWN)	
*	1-656-442-11	LCD BOARD (AEP1, UK, E, AUS, EE, HK, IT, JE, PX)	
*	1-657-308-11	LCD BOARD (CND1)	
*	1-655-706-11	LCD BOARD (US, CND2)	
		*********	
		< CONNECTOR >	
CNP802	1-565-937-11	SOCKET, CONNECTOR 13P	
		< LIQUID CRYSTAL DISPLAY >	
LCD801	1-810-442-11	DISPLAY PANEL, LIQUID CRYSTAL	
		< SWITCH >	
S802	1-571-760-11	SWITCH, KEY BOARD (PLAY/PAUSE)	
S803	1-571-760-11	SWITCH, KEY BOARD (STOP)	
S804	1-571-760-11	SWITCH, KEY BOARD (AMS/SEARCH)	
S805	1-571-760-11	SWITCH, KEY BOARD (AMS/SEARCH)	
**********			

Ref. No.	Part No.	Description	Remark
*	1-657-310-11	LEAF SW BOARD (CND1)	
*	1-655-708-11	LEAF SW BOARD (US, CND2)	
*	1-656-444-11	LEAF SW BOARD (AEP1, UK, E, AUS, EE, HK, IT, JE, PX)	
*	1-656-826-11	LEAF SW BOARD (AEP2, C&SA, EA, TWN)	
		**********	
		< CONNECTOR >	
* CNP801	1-580-154-11	PIN, CONNECTOR (PC BOARD) 2P	
		< SWITCH >	
S801	1-571-936-11	SWITCH, LEAF (DOOR OPEN/CLOSE)	
**********			
	A-3269-910-A	MAIN BOARD, COMPLETE (US, CND2)	
*	A-3305-162-A	MAIN BOARD, COMPLETE (CND1)	
*	A-3305-058-A	MAIN BOARD, COMPLETE (AEP1, UK, AUS, EE, IT)	
*	A-3305-077-A	MAIN BOARD, COMPLETE (AEP2)	
*	A-3305-182-A	MAIN BOARD, COMPLETE (E, HK, JE, PX)	
*	A-3305-154-A	MAIN BOARD, COMPLETE (C&SA, EA, TWN)	
		**********	
	7-685-647-79	SCREW +BVTP 3×10 TYPE2 N-S	
		< CAPACITOR >	

C101	1-162-301-11	CERAMIC	0.0015uF	30%	16V
C102	1-104-664-11	ELECT	47uF	20%	10V
C103	1-161-020-11	CERAMIC	0.039uF	10%	16V
C104	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C105	1-124-464-11	ELECT	0.22uF	20%	50V
C107	1-124-902-00	ELECT	0.47uF	20%	50V
C108	1-162-282-31	CERAMIC	100PF	10%	50V
C109	1-124-907-11	ELECT	10uF	20%	50V

MAIN

Ref. No.	Part No.	Description			Remark
C110	1-162-842-11	CERAMIC	0.018uF	10%	16V
C112	1-162-290-31	CERAMIC	470PF	10%	50V
C113	1-130-495-00	MYLAR	0.1uF	5%	50V
C114	1-124-473-11	ELECT	1000uF	20%	10V
C116	1-104-664-11	ELECT	47uF	20%	10V
C122	1-124-443-00	ELECT	100uF	20%	10V
C123	1-162-215-31	CERAMIC	47PF	5%	50V
C201	1-162-301-11	CERAMIC	0.0015uF	30%	16V
C202	1-104-664-11	ELECT	47uF	20%	10V
C203	1-161-020-11	CERAMIC	0.039uF	10%	16V
C204	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C205	1-124-464-11	ELECT	0.22uF	20%	50V
C207	1-124-902-00	ELECT	0.47uF	20%	50V
C208	1-162-282-31	CERAMIC	100PF	10%	50V
C209	1-124-907-11	ELECT	10uF	20%	50V
C210	1-162-842-11	CERAMIC	0.018uF	10%	16V
C212	1-162-290-31	CERAMIC	470PF	10%	50V
C213	1-130-495-00	MYLAR	0.1uF	5%	50V
C214	1-124-473-11	ELECT	1000uF	20%	10V
C216	1-104-664-11	ELECT	47uF	20%	10V
C222	1-124-443-00	ELECT	100uF	20%	10V
C223	1-162-215-31	CERAMIC	47PF	5%	50V
C306	1-126-923-11	ELECT	220uF	20%	10V
C307	1-126-233-11	ELECT	22uF	20%	50V
C308	1-104-664-11	ELECT	47uF	20%	10V
C309	1-124-907-11	ELECT	10uF	20%	50V
C310	1-124-907-11	ELECT	10uF	20%	50V
C312	1-126-923-11	ELECT	220uF	20%	10V
C313	1-130-481-00	MYLAR	0.0068uF	5%	50V
C314	1-104-664-11	ELECT	47uF	20%	10V
C315	1-162-301-11	CERAMIC	0.0015uF	30%	16V
C317	1-124-120-11	ELECT	220uF	20%	25V
C318	1-126-937-11	ELECT	4700uF	20%	16V
C321	1-162-306-11	CERAMIC	0.01uF	30%	16V
C322	1-162-306-11	CERAMIC	0.01uF	30%	16V
C324	1-126-923-11	ELECT	220uF	20%	10V
C325	1-162-306-11	CERAMIC	0.01uF	30%	16V
C326	1-162-306-11	CERAMIC	0.01uF	30%	16V
C328	1-162-306-11	CERAMIC	0.01uF	30%	16V
C329	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C332	1-124-907-11	ELECT	10uF	20%	50V
C333	1-126-233-11	ELECT	22uF	20%	50V
C334	1-162-282-31	CERAMIC	100PF	10%	50V
C336	1-162-294-31	CERAMIC	0.001uF	10%	50V
C337	1-162-282-31	CERAMIC	100PF	10%	50V
C338	1-162-294-31	CERAMIC	0.001uF	10%	50V
C339	1-162-282-31	CERAMIC	100PF	10%	50V
C700	1-162-306-11	CERAMIC	0.01uF	30%	16V
C701	1-162-302-11	CERAMIC	0.0022uF	30%	16V
C702	1-130-495-00	MYLAR	0.1uF	5%	50V
C703	1-130-495-00	MYLAR	0.1uF	5%	50V
C704	1-130-495-00	MYLAR	0.1uF	5%	50V
C705	1-131-375-00	TANTALUM	4.7uF	10%	10V
C706	1-130-489-00	MYLAR	0.033uF	5%	50V
C707	1-130-486-00	MYLAR	0.018uF	10%	50V
C708	1-162-199-31	CERAMIC	10PF	5%	50V
C709	1-126-962-11	ELECT	3.3uF	20%	50V
C710	1-130-493-00	MYLAR	0.068uF	5%	50V
C711	1-162-215-31	CERAMIC	47PF	5%	50V
C712	1-162-306-11	CERAMIC	0.01uF	30%	16V
C713	1-130-489-00	MYLAR	0.033uF	5%	50V
C714	1-162-306-11	CERAMIC	0.01uF	30%	16V
C715	1-130-489-00	MYLAR	0.033uF	5%	50V
C716	1-130-483-00	MYLAR	0.01uF	5%	50V
C717	1-104-664-11	ELECT	47uF	20%	10V
C718	1-124-907-11	ELECT	10uF	20%	50V
C719	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C720	1-130-483-00	MYLAR	0.01uF	5%	50V
C721	1-130-491-00	MYLAR	0.047uF	5%	50V
C722	1-161-494-00	CERAMIC	0.022uF		25V
C723	1-130-495-00	MYLAR	0.1uF	5%	50V
C724	1-126-923-11	ELECT	220uF	20%	10V
C725	1-162-199-31	CERAMIC	10PF	5%	50V
C726	1-162-294-31	CERAMIC	0.001uF	10%	50V
C727	1-162-306-11	CERAMIC	0.01uF	30%	16V
C728	1-130-495-00	MYLAR	0.1uF	5%	50V
C729	1-104-664-11	ELECT	47uF	20%	10V
C730	1-124-472-11	ELECT	470uF	20%	10V
C731	1-162-294-31	CERAMIC	0.001uF	10%	50V
C732	1-130-484-00	MYLAR	0.012uF	5%	50V
C734	1-162-305-11	CERAMIC	0.0068uF	30%	16V
C736	1-124-443-00	ELECT	100uF	20%	10V
C739	1-124-443-00	ELECT	100uF	20%	10V
C740	1-130-495-00	MYLAR	0.1uF	5%	50V
C741	1-104-664-11	ELECT	47uF	20%	10V
C742	1-136-173-00	FILM	0.47uF	5%	50V
C743	1-162-290-31	CERAMIC	470PF	10%	50V
C744	1-162-286-21	CERAMIC	220PF	10%	50V
C745	1-136-169-00	FILM	0.22uF	5%	50V
C746	1-162-306-11	CERAMIC	0.01uF	30%	16V
C747	1-130-481-00	MYLAR	0.0068uF	5%	50V
C750	1-126-923-11	ELECT	220uF	20%	10V
C752	1-162-199-31	CERAMIC	10PF	5%	50V
C753	1-162-199-31	CERAMIC	10PF	5%	50V
C754	1-130-495-00	MYLAR	0.1uF	5%	50V
C755	1-162-294-31	CERAMIC	0.001uF	10%	50V
C757	1-130-495-00	MYLAR	0.1uF	5%	50V
C758	1-162-282-31	CERAMIC	100PF	10%	50V

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MAIN

Ref. No.	Part No.	Description			Remark
C763	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C764	1-126-963-11	ELECT	4.7uF	20%	50V
C773	1-162-600-11	CERAMIC	0.0047uF	30%	16V
C774	1-126-963-11	ELECT	4.7uF	20%	50V
C783	1-162-306-11	CERAMIC	0.01uF	30%	16V
C787	1-126-923-11	ELECT	220uF	20%	10V
C788	1-130-495-00	MYLAR	0.1uF	5%	50V
C790	1-124-902-00	ELECT	0.47uF	20%	50V
C792	1-162-282-31	CERAMIC	100PF	10%	50V
C793	1-162-282-31	CERAMIC	100PF	10%	50V
C794	1-162-282-31	CERAMIC	100PF	10%	50V
C796	1-162-306-11	CERAMIC	0.01uF	30%	16V
C800	1-162-306-11	CERAMIC	0.01uF	30%	16V
C801	1-124-902-00	ELECT	0.47uF	20%	50V
C802	1-130-483-00	MYLAR	0.01uF	5%	50V
C803	1-126-233-11	ELECT	22uF	20%	50V
		< CONNECTOR >			
* CNP301	1-580-154-11	PIN, CONNECTOR (PC BOARD) 2P			
CNP302	1-506-987-11	PIN, CONNECTOR (PC BOARD) 5P			
CNP303	1-506-986-11	PIN, CONNECTOR (PC BOARD) 4P			
* CNP304	1-580-154-11	PIN, CONNECTOR (PC BOARD) 2P			
CNP306	1-506-986-11	PIN, CONNECTOR (PC BOARD) 4P			
CNP307	1-506-986-11	PIN, CONNECTOR (PC BOARD) 4P			
CNP701	1-770-674-11	CONNECTOR, FFC/FPC			
* CNP703	1-580-158-11	PIN, CONNECTOR (PC BOARD) 6P			
* CNP704	1-569-930-11	SOCKET, CONNECTOR 13P			
CNP704	1-695-336-31	PIN, CONNECTOR (PC BOARD) 13P			
* CNP705	1-580-154-11	PIN, CONNECTOR (PC BOARD) 2P			
		< DIODE >			
D301	8-719-901-33	DIODE	1SS133T-77		
D302	8-719-901-33	DIODE	1SS133T-77		
D303	8-719-901-33	DIODE	1SS133T-77		
D304	8-719-901-33	DIODE	1SS133T-77		
D305	8-719-109-98	DIODE	RD6.8ES-B3		
D305	8-719-109-97	DIODE	RD6.8ES-B2		
D306	8-719-938-69	LED	GL3PR8 (OPR/BATT)		
D307	8-719-109-90	DIODE	RD5.6ESB3		
D307	8-719-109-89	DIODE	RD5.6ESB2		
D308	8-719-901-33	DIODE	1SS133T-77		
D309	8-719-109-69	DIODE	RD3.6ES-B2		
D310	8-719-901-33	DIODE	1SS133T-77		
D311	8-719-901-33	DIODE	1SS133T-77		
D313	8-719-901-33	DIODE	1SS133T-77		
D316	8-719-901-33	DIODE	1SS133T-77		
D704	8-719-901-33	DIODE	1SS133T-77		
D705	8-719-901-33	DIODE	1SS133T-77		

Ref. No.	Part No.	Description	Remark
		< IC >	
IC301	8-759-264-71	IC TA2068N	
IC302	8-759-820-22	IC LA4597	
IC701	8-752-069-56	IC CXA1782BQ	
IC702	8-752-372-94	IC CXD2507AQ	
IC703	8-759-332-98	IC BA6196FP	
IC704	8-759-283-60	IC SM5875AM-ET	
IC801	8-752-854-17	IC CXP5084H-675Q	
IC801	8-752-855-67	IC CXP5084H-675Q	
IC802	8-759-256-72	IC PST994D	
		< JACK >	
J302	1-566-891-11	JACK (PHONES)	
		< COIL >	
L101	1-414-142-11	INDUCTOR 1uH	
L102	1-410-324-11	INDUCTOR 4.7uH (AEP, UK, AUS, EE, IT)	
L102	1-410-509-11	INDUCTOR 10uH (US, CND)	
L201	1-414-142-11	INDUCTOR 1uH	
L202	1-410-324-11	INDUCTOR 4.7uH (AEP, UK, AUS, EE, IT)	
L202	1-410-509-11	INDUCTOR 10uH (US, CND)	
L301	1-410-324-11	INDUCTOR 4.7uH (AEP, UK, AUS, EE, IT)	
L301	1-410-509-11	INDUCTOR 10uH (US, CND)	
L703	1-410-397-21	FERRITE BEAD INDUCTOR (US, CND, AEP, UK, AUS, EE, IT)	
L713	1-410-397-21	FERRITE BEAD INDUCTOR (US, CND, AEP, UK, AUS, EE, IT)	
L714	1-410-509-11	INDUCTOR 10uH (US, CND, AEP, UK, AUS, EE, IT)	
L715	1-410-397-21	FERRITE BEAD INDUCTOR (CND1, AEP1, UK, AUS, EE, IT)	
L716	1-410-513-11	INDUCTOR 22uH (AEP, UK, AUS, EE, IT)	
L716	1-410-509-11	INDUCTOR 10uH (US, CND)	
L717	1-410-513-11	INDUCTOR 22uH (AEP, UK, AUS, EE, IT)	
L717	1-410-509-11	INDUCTOR 10uH (US, CND)	
L718	1-410-513-11	INDUCTOR 22uH (AEP, UK, AUS, EE, IT)	
L718	1-410-509-11	INDUCTOR 10uH (US, CND)	
L719	1-410-513-11	INDUCTOR 22uH (AEP, UK, AUS, EE, IT)	
L720	1-410-513-11	INDUCTOR 22uH (AEP, UK, AUS, EE, IT)	
L721	1-410-513-11	INDUCTOR 22uH (AEP, UK, AUS, EE, IT)	
L723	1-410-397-21	FERRITE BEAD INDUCTOR (CND1, AEP1, UK, AUS, EE, IT)	
L725	1-410-397-21	FERRITE BEAD INDUCTOR (US, CND, AEP, UK, AUS, EE, IT)	
L730	1-410-509-11	INDUCTOR 10uH (US, CND, AEP, UK, AUS, EE, IT)	
L760	1-410-509-11	INDUCTOR 10uH (US, CND, AEP, UK, AUS, EE, IT)	

Ref. No.	Part No.	Description				Remark
L770	1-410-509-11	INDUCTOR	10uH			(US, CND, AEP, UK, AUS, EE, IT)
		< TRANSISTOR >				
Q101	8-729-900-74	TRANSISTOR	DTC143TS			
Q201	8-729-900-74	TRANSISTOR	DTC143TS			
Q301	8-729-281-53	TRANSISTOR	2SC1815-GR			
Q302	8-729-011-92	TRANSISTOR	2SC2001TP-K1K2			
Q303	8-729-021-82	TRANSISTOR	2SD2396K			
Q304	8-729-011-92	TRANSISTOR	2SC2001TP-K1K2			
Q305	8-729-921-65	TRANSISTOR	DTC143ES			
Q306	8-729-119-76	TRANSISTOR	2SA1175-HFE			
Q307	8-729-921-65	TRANSISTOR	DTC143ES			
Q308	8-729-011-92	TRANSISTOR	2SC2001TP-K1K2			
Q309	8-729-011-92	TRANSISTOR	2SC2001TP-K1K2			
Q310	8-729-029-47	TRANSISTOR	DTA143ESA-TP			
Q311	8-729-119-78	TRANSISTOR	2SC403SP-51			
Q312	8-729-921-65	TRANSISTOR	DTC143ES			
Q701	8-729-801-84	TRANSISTOR	2SB1013-4			
Q702	8-729-900-85	TRANSISTOR	DTC144WS			
Q703	8-729-900-74	TRANSISTOR	DTC143TS			
Q705	8-729-902-80	TRANSISTOR	DTA114YS			
Q760	8-729-900-74	TRANSISTOR	DTC143TS			
Q770	8-729-900-74	TRANSISTOR	DTC143TS			
		< RESISTOR >				
R101	1-249-431-11	CARBON	15K	5%	1/4W	
R102	1-249-404-00	CARBON	82	5%	1/4W	
R103	1-249-423-11	CARBON	3.3K	5%	1/4W	
R104	1-249-436-11	CARBON	39K	5%	1/4W	
R105	1-249-421-11	CARBON	2.2K	5%	1/4W	
R106	1-247-807-11	CARBON	100	5%	1/4W	
R109	1-247-807-11	CARBON	100	5%	1/4W	
R112	1-249-417-11	CARBON	1K	5%	1/4W	
R113	1-249-429-11	CARBON	10K	5%	1/4W	
R114	1-249-441-11	CARBON	100K	5%	1/4W	
R115	1-247-807-11	CARBON	100	5%	1/4W	
R118	1-249-429-11	CARBON	10K	5%	1/4W	
R201	1-249-431-11	CARBON	15K	5%	1/4W	
R202	1-249-404-00	CARBON	82	5%	1/4W	
R203	1-249-423-11	CARBON	3.3K	5%	1/4W	
R204	1-249-436-11	CARBON	39K	5%	1/4W	
R205	1-249-421-11	CARBON	2.2K	5%	1/4W	
R206	1-247-807-11	CARBON	100	5%	1/4W	
R209	1-247-807-11	CARBON	100	5%	1/4W	
R212	1-249-417-11	CARBON	1K	5%	1/4W	
R213	1-249-429-11	CARBON	10K	5%	1/4W	
R214	1-249-441-11	CARBON	100K	5%	1/4W	
R215	1-247-807-11	CARBON	100	5%	1/4W	

Ref. No.	Part No.	Description				Remark
R218	1-249-429-11	CARBON	10K	5%	1/4W	
R302	1-249-433-11	CARBON	22K	5%	1/4W	
R303	1-247-903-00	CARBON	1M	5%	1/4W	
R304	1-249-429-11	CARBON	10K	5%	1/4W	
R305	1-249-429-11	CARBON	10K	5%	1/4W	
R306	1-249-401-11	CARBON	47	5%	1/4W	
R307	1-249-435-11	CARBON	33K	5%	1/4W	
R308	1-249-389-11	CARBON	4.7	5%	1/4W	
R309	1-247-815-91	CARBON	220	5%	1/4W	
R312	1-249-417-11	CARBON	1K	5%	1/4W	
R313	1-249-419-11	CARBON	1.5K	5%	1/4W	
R314	1-249-415-11	CARBON	680	5%	1/4W	
R315	1-249-409-11	CARBON	220	5%	1/4W	
R316	1-249-441-11	CARBON	100K	5%	1/4W	
R317	1-249-411-11	CARBON	330	5%	1/4W	
R318	1-249-417-11	CARBON	1K	5%	1/4W	
R319	1-247-807-11	CARBON	100	5%	1/4W	
R320	1-249-393-11	CARBON	10	5%	1/4W	
R321	1-247-807-11	CARBON	100	5%	1/4W	
R322	1-249-437-11	CARBON	47K	5%	1/4W	
R323	1-249-423-11	CARBON	3.3K	5%	1/4W	
R328	1-249-423-11	CARBON	3.3K	5%	1/4W	
R329	1-249-423-11	CARBON	3.3K	5%	1/4W	
R330	1-249-429-11	CARBON	10K	5%	1/4W	
R332	1-249-425-11	CARBON	4.7K	5%	1/4W	
R333	1-249-425-11	CARBON	4.7K	5%	1/4W	
R334	1-249-417-11	CARBON	1K	5%	1/4W	
R335	1-249-423-11	CARBON	3.3K	5%	1/4W	
⚠R338	1-219-149-11	FUSIBLE	1	5%	1/4W	F (US, CND)
R700	1-249-429-11	CARBON	10K	5%	1/4W	
R701	1-249-441-11	CARBON	100K	5%	1/4W	
R702	1-247-896-11	CARBON	510K	5%	1/4W	
R703	1-249-441-11	CARBON	100K	5%	1/4W	
R704	1-249-441-11	CARBON	100K	5%	1/4W	(EXCEPT US, CND2, AEP2)
R704	1-247-883-00	CARBON	150K	5%	1/4W	(US, CND2, AEP2)
R705	1-249-437-11	CARBON	47K	5%	1/4W	
R706	1-247-883-00	CARBON	150K	5%	1/4W	
R707	1-249-432-11	CARBON	18K	5%	1/4W	
R708	1-247-883-00	CARBON	150K	5%	1/4W	
R709	1-247-862-11	CARBON	20K	5%	1/4W	
R710	1-249-393-11	CARBON	10	5%	1/4W	
R712	1-247-887-00	CARBON	220K	5%	1/4W	
R713	1-247-883-00	CARBON	150K	5%	1/4W	
R714	1-247-883-00	CARBON	150K	5%	1/4W	
R716	1-249-430-11	CARBON	12K	5%	1/4W	
R717	1-249-429-11	CARBON	10K	5%	1/4W	
R718	1-247-899-11	CARBON	680K	5%	1/4W	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

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MAIN POWER

Ref. No.	Part No.	Description				Remark
R720	1-247-891-00	CARBON	330K	5%	1/4W	
R722	1-249-439-11	CARBON	68K	5%	1/4W	
R723	1-249-439-11	CARBON	68K	5%	1/4W	
R725	1-249-437-11	CARBON	47K	5%	1/4W	
R727	1-249-417-11	CARBON	1K	5%	1/4W	
R728	1-249-429-11	CARBON	10K	5%	1/4W	
R729	1-249-429-11	CARBON	10K	5%	1/4W	
R730	1-249-435-11	CARBON	33K	5%	1/4W	
R731	1-249-433-11	CARBON	22K	5%	1/4W	
R732	1-249-429-11	CARBON	10K	5%	1/4W	
R733	1-249-435-11	CARBON	33K	5%	1/4W	
R734	1-249-437-11	CARBON	47K	5%	1/4W	
R735	1-247-852-11	CARBON	7.5K	5%	1/4W	
R739	1-249-425-11	CARBON	4.7K	5%	1/4W	
R740	1-249-423-11	CARBON	3.3K	5%	1/4W	
R741	1-249-417-11	CARBON	1K	5%	1/4W	
R742	1-249-429-11	CARBON	10K	5%	1/4W	
R743	1-247-903-00	CARBON	1M	5%	1/4W	
R744	1-247-887-00	CARBON	220K	5%	1/4W	
R745	1-249-429-11	CARBON	10K	5%	1/4W	
R746	1-249-437-11	CARBON	47K	5%	1/4W	
R747	1-249-417-11	CARBON	1K	5%	1/4W	
R748	1-249-429-11	CARBON	10K	5%	1/4W	
R749	1-249-429-11	CARBON	10K	5%	1/4W	
R750	1-249-417-11	CARBON	1K	5%	1/4W	
R751	1-249-429-11	CARBON	10K	5%	1/4W	
R753	1-249-429-11	CARBON	10K	5%	1/4W	
R754	1-249-429-11	CARBON	10K	5%	1/4W	
R756	1-249-440-11	CARBON	82K	5%	1/4W	
R757	1-249-439-11	CARBON	68K	5%	1/4W	
R758	1-249-439-11	CARBON	68K	5%	1/4W	
R759	1-249-440-11	CARBON	82K	5%	1/4W	
R766	1-249-417-11	CARBON	1K	5%	1/4W	
R776	1-249-417-11	CARBON	1K	5%	1/4W	
R780	1-249-417-11	CARBON	1K	5%	1/4W	
R781	1-249-417-11	CARBON	1K	5%	1/4W	
R782	1-249-417-11	CARBON	1K	5%	1/4W	
R783	1-249-417-11	CARBON	1K	5%	1/4W	(US, CND)
R784	1-249-417-11	CARBON	1K	5%	1/4W	(US, CND)
R785	1-249-417-11	CARBON	1K	5%	1/4W	(US, CND)
R790	1-249-433-11	CARBON	22K	5%	1/4W	
R792	1-249-429-11	CARBON	10K	5%	1/4W	
R801	1-249-435-11	CARBON	33K	5%	1/4W	
R802	1-249-435-11	CARBON	33K	5%	1/4W	
R803	1-249-435-11	CARBON	33K	5%	1/4W	
R806	1-249-437-11	CARBON	47K	5%	1/4W	
R807	1-249-429-11	CARBON	10K	5%	1/4W	
R808	1-249-429-11	CARBON	10K	5%	1/4W	
R809	1-249-429-11	CARBON	10K	5%	1/4W	

Ref. No.	Part No.	Description				Remark
R810	1-249-429-11	CARBON	10K	5%	1/4W	
R811	1-249-429-11	CARBON	10K	5%	1/4W	
R812	1-249-429-11	CARBON	10K	5%	1/4W	
R813	1-249-429-11	CARBON	10K	5%	1/4W	
R814	1-249-429-11	CARBON	10K	5%	1/4W	
R815	1-249-421-11	CARBON	2.2K	5%	1/4W	
		< VARIABLE RESISTOR >				
RV301	1-223-403-11	RES, VAR, CARBON 20K/20K (VOLUME)				
RV302	1-241-745-11	RES, VAR, CARBON 20K/20K (TONE)				
RV701	1-238-601-11	RES, ADJ, CARBON 22K (FOCUS GAIN)				
RV702	1-238-601-11	RES, ADJ, CARBON 22K (FOCUS BIAS)				
RV703	1-238-598-11	RES, ADJ, CARBON 2.2K (E-F BALANCE)				
RV704	1-238-601-11	RES, ADJ, CARBON 22K (TRACKING GAIN)				
		< SWITCH >				
S302	1-571-345-11	SWITCH, LEVER SLIDE (FUNCTION)				
		< TRANSFORMER >				
T301	1-433-268-00	TRANSFORMER, BIAS OSCILLATOR				
		< VIBRATOR >				
X701	1-579-345-11	VIBRATOR, CERAMIC (16.9344MHz)				
**********						
*	1-655-704-11	POWER BOARD (US, CND2)				
*	1-656-822-11	POWER BOARD (AEP2, C&SA, EA, TWN)				
*	1-657-306-11	POWER BOARD (CND1)				
*	1-656-440-11	POWER BOARD (AEP1, UK, E, AUS, EE, HK, IT, JE, PX)				
		**********				
	1-533-217-31	HOLDER, FUSE				
		< CAPACITOR >				
C901	1-101-005-00	CERAMIC	22000PF		50V	
C902	1-101-005-00	CERAMIC	22000PF		50V	
C903	1-101-005-00	CERAMIC	22000PF		50V	
C904	1-101-005-00	CERAMIC	22000PF		50V	
C905	1-136-169-00	FILM	0.22uF	5%	50V	
		< JACK >				
⚠CNJ901	1-526-838-11	INLET, AC 2P (AC IN ~) (AEP, UK, E, AUS, EA, EE, HK, IT, JE, PX)				
⚠CNJ901	1-540-009-11	INLET, AC (AC IN ~) (US, CND)				
⚠CNJ901	1-526-818-11	INLET, AC (AC IN ~) (C&SA, TWN)				
		< DIODE >				
D901	8-719-031-53	DIODE LT2A02				

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Ref. No.	Part No.	Description	Remark
D901	8-719-046-07	DIODE 2A02M	
D902	8-719-031-53	DIODE LT2A02	
D902	8-719-046-07	DIODE 2A02M	
D903	8-719-031-53	DIODE LT2A02	
D903	8-719-046-07	DIODE 2A02M	
D904	8-719-031-53	DIODE LT2A02	
D904	8-719-046-07	DIODE 2A02M	
		< FUSE >	
⚠F901	1-532-235-00	FUSE (315mA 250V) (E, EA, HK, JE, PX)	
⚠F902	1-532-286-00	FUSE (2.5A 250V) (AEP, UK, E, AUS, EA, EE, HK, IT, JE, PX)	
⚠F902	1-576-107-11	FUSE (3.15A 125V) (US, CND, C&SA, TWN)	
		< CABLE, HOLDER >	
* KH901	1-573-287-11	HOLDER, CABLE 2P	
		< COIL >	
L901	1-410-397-21	FERRITE BEAD INDUCTOR (US, CND, AEP, UK, AUS, EE, IT)	
L902	1-410-397-21	FERRITE BEAD INDUCTOR (US, CND, AEP, UK, AUS, EE, IT)	
		< LINE FILTER >	
⚠LF901	1-424-150-11	TRANSFORMER, LINE FILTER	
		< SWITCH >	
⚠S901	1-572-290-11	SWITCH, POWER (VOLTAGE CHANGE) (E, EA, HK, JE, PX)	
		< TRANSFORMER >	
⚠T901	1-426-633-11	TRANSFORMER, POWER (E, EA, HK, JE, PX)	
⚠T901	1-426-634-11	TRANSFORMER, POWER (AUS)	
⚠T901	1-426-632-11	TRANSFORMER, POWER (AEP, UK, EE, IT)	
⚠T901	1-426-631-11	TRANSFORMER, POWER (US, CND, C&SA, TWN)	
**********			
*	A-3269-908-A	TUNER BOARD, COMPLETE (US, CND2)	
*	A-3305-161-A	TUNER BOARD, COMPLETE (CND1)	
*	A-3305-057-A	TUNER BOARD, COMPLETE (AEP1, UK)	
*	A-3305-078-A	TUNER BOARD, COMPLETE (AEP2)	
*	A-3305-181-A	TUNER BOARD, COMPLETE (E, AUS, HK, PX)	
*	A-3305-155-A	TUNER BOARD, COMPLETE (C&SA, TWN)	
*	A-3305-178-A	TUNER BOARD, COMPLETE (EA)	
*	A-3305-179-A	TUNER BOARD, COMPLETE (EE)	
*	A-3305-183-A	TUNER BOARD, COMPLETE (IT)	
*	A-3305-184-A	TUNER BOARD, COMPLETE (JE)	
		**********	

Ref. No.	Part No.	Description			Remark
		< FILTER >			
BPF1	1-239-507-11	FILTER, BAND PASS (JE)			
BPF1	1-239-907-21	FILTER, BAND PASS (EE)			
BPF1	1-236-711-21	FILTER, BAND PASS (EXCEPT EE, JE)			
		< CAPACITOR >			
C2	1-162-306-11	CERAMIC	0.01uF	30%	16V
C3	1-162-199-31	CERAMIC	10PF	5%	50V (EA)
C3	1-124-443-00	ELECT	100uF	20%	10V
C4	1-162-190-31	CERAMIC	1.8PF	20%	50V
C5	1-162-209-31	CERAMIC	27PF	5%	50V (JE)
C5	1-162-199-31	CERAMIC	10PF	5%	50V (EE)
C5	1-162-208-31	CERAMIC	24PF	5%	50V (AEP, UK, EA, IT)
C5	1-162-207-31	CERAMIC	22PF	5%	50V (US, CND, E, C&SA, AUS, HK, PX, TWN)
C6	1-102-949-00	CERAMIC	12PF	5%	50V (JE)
C6	1-102-959-00	CERAMIC	22PF	5%	50V (IT)
C6	1-102-947-00	CERAMIC	10PF	5%	50V (EE)
C6	1-102-958-00	CERAMIC	20PF	5%	50V (EA)
C6	1-102-961-00	CERAMIC	27PF	5%	50V (AEP, UK)
C6	1-102-960-00	CERAMIC	24PF	5%	50V (US, CND, E, C&SA, AUS, HK, PX, TWN)
C7	1-162-199-31	CERAMIC	10PF	5%	50V (IT)
C7	1-162-198-31	CERAMIC	8.2PF	10%	50V (AEP, UK, E, C&SA, AUS, EA, EE, HK, JE, PX, TWN)
C7	1-162-197-31	CERAMIC	6.8PF	10%	50V (US, CND)
C8	1-162-193-31	CERAMIC	3.3PF	10%	50V
C9	1-162-306-11	CERAMIC	0.01uF	30%	16V
C10	1-162-306-11	CERAMIC	0.01uF	30%	16V
C11	1-126-963-11	ELECT	4.7uF	20%	50V
C12	1-124-903-11	ELECT	1uF	20%	50V
C13	1-104-664-11	ELECT	47uF	20%	10V
C14	1-124-443-00	ELECT	100uF	20%	10V
C15	1-162-306-11	CERAMIC	0.01uF	30%	16V
C16	1-124-925-11	ELECT	2.2uF	20%	100V
C17	1-124-443-00	ELECT	100uF	20%	10V
C18	1-162-839-11	CERAMIC	0.01uF	10%	16V (AEP, UK, EE, IT, JE)
C18	1-161-053-00	CERAMIC	0.015uF	10%	50V (US, CND, E, C&SA, AUS, EA, HK, PX, TWN)
C19	1-162-839-11	CERAMIC	0.01uF	10%	16V (AEP, UK, EE, IT, JE)
C19	1-161-053-00	CERAMIC	0.015uF	10%	50V (US, CND, E, C&SA, AUS, EA, HK, PX, TWN)
C20	1-124-902-00	ELECT	0.47uF	20%	50V (IT)
C21	1-124-902-00	ELECT	0.47uF	20%	50V (IT)
C22	1-124-903-11	ELECT	1uF	20%	50V

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TUNER

Ref. No.	Part No.	Description			Remark
C23	1-124-902-00	ELECT	0.47uF	20%	50V
C24	1-126-963-11	ELECT	4.7uF	20%	50V
C31	1-162-294-31	CERAMIC	0.001uF	10%	50V
C32	1-162-294-31	CERAMIC	0.001uF	10%	50V
C33	1-162-191-31	CERAMIC	2.2PF	10%	50V (JE)
C33	1-162-199-31	CERAMIC	10PF	5%	50V (IT)
		< FILTER >			
CF1	1-760-237-11	FILTER, CERAMIC			
CF1	1-760-238-11	FILTER, CERAMIC			
CF3	1-760-237-11	FILTER, CERAMIC			
CF3	1-760-238-11	FILTER, CERAMIC			
		< COMPOSITION CIRCUIT BLOCK >			
CFT1	1-239-724-11	ENCAPSULATED COMPONENT			
		< CONNECTOR >			
CNP1	1-506-987-11	PIN, CONNECTOR (PC BOARD) 5P			
		< VARIABLE CAPACITOR >			
CT1-4 CV1-4	1-151-697-11	CAP, VAR (EE, JE)			
CT1-4 CV1-4	1-151-695-11	CAP, VAR (EXCEPT US, CND, EE, JE)			
CT1-4 CV1-4	1-151-696-11	CAP, VAR (US, CND)			
		< IC >			
IC1	8-752-050-20	IC CXA1238S			
		< COIL >			
L1	1-409-776-11	COIL, AIR-CORE (EE)			
L1	1-406-998-11	COIL, AIR-CORE (EXCEPT EE)			
L2	1-409-999-11	COIL, AIR-CORE (JE)			
L2	1-409-775-11	COIL, AIR-CORE (EE)			
L2	1-406-957-11	COIL (WITH CORE) (EA, IT)			
L2	1-411-387-11	COIL, AIR-CORE (AEP, UK)			
L2	1-422-230-11	COIL, AIR-CORE (US, CND, E, C&SA, AUS, HK, PX, TWN)			
L3	1-402-577-31	ANTENNA, FERRITE-ROD (MW) (EXCEPT US, CND, AEP2)			
L3	1-402-577-11	ANTENNA, FERRITE-ROD (MW) (US, CND, AEP2)			
L4	1-406-464-51	COIL (OSC)			
		< TRANSISTOR >			
Q1	8-729-119-78	TRANSISTOR 2SC403SP-51			

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R2	1-249-421-11	CARBON	2.2K	5%	1/4W
R3	1-249-441-11	CARBON	100K	5%	1/4W
R5	1-249-429-11	CARBON	10K	5%	1/4W
R7	1-249-403-11	CARBON	68	5%	1/4W
R8	1-249-427-11	CARBON	6.8K	5%	1/4W
R9	1-249-427-11	CARBON	6.8K	5%	1/4W
R10	1-249-435-11	CARBON	33K	5%	1/4W (AEP, UK, IT)
R11	1-247-887-00	CARBON	220K	5%	1/4W
R12	1-249-421-11	CARBON	2.2K	5%	1/4W
R13	1-247-807-31	CARBON	100	5%	1/4W
R14	1-249-413-11	CARBON	470	5%	1/4W (JE)
R14	1-249-411-11	CARBON	330	5%	1/4W (EXCEPT JE)
R15	1-247-887-00	CARBON	220K	5%	1/4W
R16	1-249-425-11	CARBON	4.7K	5%	1/4W (US, CND)
R19	1-249-429-11	CARBON	10K	5%	1/4W (EXCEPT IT)
R20	1-249-437-11	CARBON	47K	5%	1/4W
		< VARIABLE RESISTOR >			
RV1	1-238-601-11	RES, ADJ, CARBON 22K (VCO)			
		< SWITCH >			
SW1	1-692-928-11	SWITCH, SLIDE (MONO/STEREO) (AEP, UK, IT)			

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MISCELLANEOUS

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9	1-765-085-11	WIRE, PARALLEL (FFC) (13 CORE)
78	1-769-789-11	WIRE (FLAT TYPE) (16 CORE)
104	1-452-732-11	MAGNET
ANT1	1-501-388-11	ANTENNA, TELESCOPIC
HE601	1-500-031-11	HEAD, MAGNETIC (ERASE)
HRP601	1-500-168-11	HEAD, MAGNETIC (RECORD/PLAYBACK)
M601	X-3366-491-1	MOTOR ASSY
S601	1-692-434-11	SWITCH, LEAF (MD POWER)
S602	1-692-434-11	SWITCH, LEAF (REC)
S801	1-571-936-11	SWITCH, LEAF (DOOR OPEN/CLOSE)
SP901	1-504-548-11	SPEAKER (10CM) (L-CH) (US, CND)
SP901	1-504-548-21	SPEAKER (10CM) (L-CH) (EXCEPT US, CND)
SP902	1-504-548-11	SPEAKER (10CM) (R-CH) (US, CND)
SP902	1-504-548-21	SPEAKER (10CM) (R-CH) (EXCEPT US, CND)

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Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	
		******	
⚠	1-551-983-00	CORD, POWER (E:110-120V AC AREA)	
⚠	1-557-287-11	CORD, POWER (C&SA, TWN)	
⚠	1-569-007-11	ADAPTER, CONVERSION 2P (E:110-120V AC AREA)	
⚠	1-569-008-11	ADAPTER, CONVERSION 2P (EA, JE)	
⚠	1-690-952-21	CORD, POWER (US, CND)	
⚠	1-696-819-11	CORD, POWER (AUS)	
⚠	1-696-820-21	CORD, POWER (AEP, E:220-240V AC AREA, EA, EE, HK, IT, JE, PX)	
⚠	1-751-214-11	CORD, POWER (UK)	
⚠	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (HK)	
	3-798-743-11	MANUAL, INSTRUCTION (ENGLISH/FRENCH/ GERMAN/SPANISH) (AEP1, UK, E, JE, PX)	
	3-798-743-21	MANUAL, INSTRUCTION (ENGLISH) (US, CND, AUS, TWN)	
	3-798-743-31	MANUAL, INSTRUCTION (FRENCH) (CND)	
	3-798-743-41	MANUAL, INSTRUCTION (DUTCH/SWEDISH/ ITALIAN/PORTUGUESE) (AEP, IT)	
	3-798-743-51	MANUAL, INSTRUCTION (POLISH/ENGLISH/ GERMAN/RUSSIAN) (EE)	
	3-798-743-61	MANUAL, INSTRUCTION (CZECH/HUNGARIAN) (EE)	
	3-798-743-71	MANUAL, INSTRUCTION (ENGLISH/CHINESE) (HK)	
	3-800-056-11	MANUAL, INSTRUCTION (ENGLISH/FRENCH/ GERMAN/SPANISH) (AEP2, C&SA, EA)	
	3-800-056-51	MANUAL, INSTRUCTION (CHINESE) (TWN)	
*	3-910-853-01	CUSHION (L)	
*	3-910-854-01	CUSHION (R)	
*	3-923-083-01	INDIVIDUAL CARTON (US)	
*	3-923-084-01	INDIVIDUAL CARTON (CND2, TWN)	
*	3-923-819-01	INDIVIDUAL CARTON (AEP1, UK, EE, IT)	
*	3-923-822-01	INDIVIDUAL CARTON (E, HK, JE, PX)	
*	3-924-339-01	INDIVIDUAL CARTON (AEP2)	
*	3-925-436-01	INDIVIDUAL CARTON (CND1, AUS)	
*	3-925-437-01	INDIVIDUAL CARTON (C&SA, EA)	
	8-953-491-93	HEADPHONE MDR-007L/2 SET (US)	

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Ref. No.	Part No.	Description	Remark
		******	
		HARDWARE LIST	
		******	
#1	7-685-647-79	SCREW +BVTP 3×10 TYPE2 N-S	
#2	7-685-104-19	SCREW +P 2×6 TYPE2 NON-SLIT	
#3	7-685-649-79	SCREW +BVTP 3×14 TYPE2 N-S	
#4	7-682-548-04	SCREW +B 3×8	
#5	7-621-255-25	SCREW +PTT 2×4 (S)	
#6	7-621-773-95	SCREW +B 2.6×6	
#7	7-685-646-79	SCREW +BVTP 3×8 TYPE2 N-S	
#8	7-685-533-19	SCREW +BTP 2.6×6 TYPE2 N-S	
#9	7-685-903-31	SCREW +PTPWH 3×10 (TYPE2)	
#10	7-628-254-05	SCREW +PS 2.6×5	
#11	7-685-861-01	SCREW +BVTT 2.6×5 (S)	
#12	7-621-255-15	SCREW +P 2×3	

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